# PB# 05-27

# Piaria, Inc.
# (SP & Spec. Permit)

# 3-1-15

05-27 Piaria, Inc. Site Plan
Special Permit Silver Stream Rd. (shm)

TOWN OF NEW WINDSOR
PLANNING BOARD
APPROVED COPY
DATE: July 21, 2006

# STORM WATER POLLUTION PREVENTION PLAN

## NEW STEEL FABRICATING FACILITY

## FOR

## PIARIA, INC.

SILVER STREAM ROAD TOWN OF NEW WINDSOR, NEW YORK

Prepared By:

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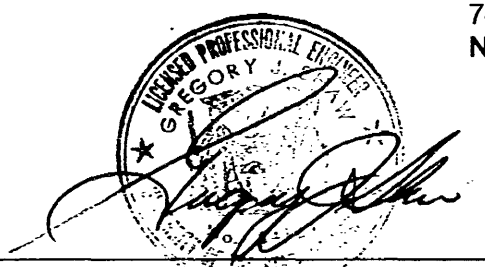


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March 14, 2006

# TABLE OF CONTENTS

## APPENDICES

A. NYSDEC SPDES GENERAL PERMIT GP-02-01

B. NOTICE OF INTENT FORM

C. OPERATOR'S AND CONTRACTOR'S CERTIFICATION FORMS

D. INSPECTION REPORT

E. RECORD OF STABILIZATION AND CONSTRUCTION ACTIVITY

F. NOTICE OF TERMINATION FORM

G. STORM WATER MANAGEMENT CALCULATIONS
- HYDROLOGIC AND HYDRAULIC -

H. STORM WATER MANAGEMENT CALCULATIONS
- WATER QUALITY

## 1.0 INTRODUCTION

Piaria, Inc. is proposing to construct a steel fabricating facility with associated site improvements on a 4.28 acre parcel of land in the Town of New Windsor, Orange County, New York. To mitigate storm water impacts generated during and after construction, "New York State Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity", General Permit Number GP-02-01, requires the preparation of a Storm Water Pollution Prevention Plan (SWPPP). Refer to Appendix A for a copy of the SPDES General Permit for Storm Water Discharges Associated With Construction Activities.

The purpose of this SWPPP is to identify erosion and sediment control measures, and storm water management and pollution prevention practices. An integral part of this SWPPP are the accompanying Drawings entitled "New Steel Fabricating Facility For Piaria, Inc.", consisting of 5 sheets and having an date of March 14, 2006. This SWPPP is not considered complete without them.

An open sand filter and a storm water detention basin have been incorporated into the development of the site to treat the water quality volume and to detain peak runoff flows from the site. These practices and the erosion control measures have been designed in accordance with the following technical standards:

- New York State Stormwater Management Design Manual dated August 2003
- New York State Standards and Specifications for Erosion and Sediment Control dated January 2004.

Pre- and Post-development storm water discharge rates have been evaluated for the 1, 10, 25 and 100 year 24 hour storm events. Comparison of Pre- and Post-development storm water flows demonstrate that the peak rate of runoff from the proposed site will not be increased, and thus will not pose a significant adverse impact to the adjacent or downstream properties or receiving water courses. The proposed measures outlined herein have been designed to provide water quality controls by filtering the water quality volume, and quantity controls by detaining peak flows and releasing runoff at a rate equal to or less than that which existed prior to development of the project site.

## 2.0 NYSDEC SPDES GENERAL PERMIT GP-02-01

### 2.1 Purpose

Urban storm water discharges cause significant changes to quantity and quality of surface water as a result of runoff contributed by varying land use development. While this development will alter the existing runoff characteristics of this project site, expected impacts will be mitigated by

a sand filter and a storm water detention basin that will slowly release the water back into the environment reducing the site impacts.

Land clearing and development of any site alters its hydrology, therefore changing the characteristics of the surface and groundwater discharge. Changing the surface conditions alters a site's natural ability to store, treat, or infiltrate runoff. This change also allows for the discharge of potentially damaging pollutants and sediments to adjoining water bodies. This can occur during the project's construction phase, and after its completion if proper storm water control designs are not fully implemented. During the construction phase, graded unstabilized areas are subject to erosion which can cause the displacement of sediment to off-site receiving waters and wetlands. After development, changes in surface conditions, such as impervious surfaces (ie.: roofs and asphalt pavement) and lawn surfaces, can generate pollutants which are discharged to surrounding natural waterways. Some of the pollutants of concern are: Total Suspended Solids (TSS); Biological Oxygen Demand (BOD); Total Phosphorus (TP); and Total Nitrogen (TN), as well as oil or grease, and chloride. Vehicle traffic and impervious surfaces are major contributors of pollutants as they quickly become waterborne during even the slightest storm event.

In planning the design of a development, Post-development storm water must be properly managed to mitigate potential impacts. This SWPPP has been prepared to minimize pollution typically generated by land development. The Plan has incorporated an Erosion and Sediment Control Plan (E&SCP) to minimize storm water impacts during construction. In addition, the Plan identifies potential pollutant sources, temporary and permanent pollution control features, as well as an implementation schedule and maintenance of the controls.

## 2.2 Regulatory Obligations

The NYSDEC through its SPDES General Permit for Storm Water Discharges Associated With Construction Activities (General Permit No. GP-02-01) regulates the discharge of storm water from this project. This permit program is pursuant to Section 402 of the Federal Clean Water Act (CWA), and the Environmental Conservation Law (ECL). The regulation(s) states "Storm Water discharges from certain construction activities to waters of the United States are unlawful unless they are authorized by a 'National Pollutant Discharge Elimination System' (NPDES) Permit or by a State Permit Program." To obtain coverage under the General Permit, a Discharger, Owner or Operator must submit a Notice of Intent (NOI) to the NYSDEC, and meet the requirements set forth under GP-02-01 (See in Appendix A).

This SPDES permit program mandates that any development which involves the disturbance of one acre must include the completion of a SWPPP along with an Erosion and Sediment Control Plan (E&SCP) unless it falls within the exceptions set forth in the GP-02-01 Permit. This proposed project requires this SWPPP to identify potential sources of pollution, and detail the design and the implementation of practices to reduce pollutant loadings both during and after construction, and the mitigation of Post-development flows.

## 2.3 Definitions

General Permit shall mean the general storm water permit for construction activities issued by the United States Environmental Protection Agency, NYSDEC or a comparable general permit issued by local or other appropriate governmental agency.

Operator shall be any party (or parties) that has (or have) either (a) operational control over construction plans and specifications, including the ability to make modification to those plans and specifications or (b) day-to-day operational control of those activities at a project which are necessary to ensure compliance with the SWPPP for the site or other permit conditions. There may be occasions during the course of a project in which there are multiple Operators, all of which will need to file and maintain the appropriate SWPPP documents and plans, including without limitation, the Notice of Intent (NOI) and Notice of Termination (NOT).

Operator's Engineer shall be that person or entity retained by an Operator to design and oversee the implementation of the SWPPP.

Contractor shall be that person or entity identified as such in the construction contract with the Operator. The term "Contractor" shall also include the Contractor's authorized representative, as well as any and all subcontractors retained by the Contractor.

Qualified Professional shall be a person knowledgeable in the practices of erosion and sediment controls, such as a NYS professional engineer or Certified Professional in Erosion and Sediment Control (CPESC).

## 2.4 Operator's Responsibility

- Have an authorized corporate officer sign the NOI, the SWPPP and the Operator's Certification forms (Appendix C).
- Submit the signed form along with any required fees and attachments to the following:

  NYS DEC "Notice of Intent"
  Bureau of Permit
  625 Broadway
  Albany, New York 12233-3505

- Retain the services of a "Qualified Professional" to provide the services outlined in "Operator's Engineer's Responsibilities".
- Schedule a pre-construction meeting which shall include the Town of New Windsor representative, Operator's Engineer, Contractor, and their sub-contractors to discuss responsibilities as they relate to the implementation of this SWPPP.

- Require the Contractor to fully implement the SWPPP prepared for the site by the Operator's Engineer.

- Forward a copy of the original permit certificate received from the regulatory agency to the Contractor for display at the job site.

- Keep a copy of the SWPPP, all NOI's, permit certificates, permit language, inspection records, and other required records on the job site so that they may be made available to the regulatory agencies.

- Prepare a written summary of projects status with respect to compliance with the General Permit at a minimum frequency of every three months during which coverage under the Permit exists. The summary should address the status of achieving the overall goal of the SWPPP.

- Submit a Notice of Termination (NOT) form (see Appendix F) within 48 hours of receipt the Operator's Engineer's certification of final site stabilization to the following:

  NYS DEC "Notice of Termination"
  Bureau of Permit
  625 Broadway
  Albany, New York 12233-3505

- Request and receive all SWPPP records from the Operator's Engineer and archive those records for a minimum of three years after the NOT is filed.

## 2.5 Operator's Engineer's Responsibilities

- Prepare the SWPPP using good engineering practices, best management practices, and in compliance with all federal, state, and local regulatory requirements.

- Prepare the Notice of Intent Form (NOI) form (see Appendix B) and forward to Operator for signature.

- Prepare and forward the SWPPP Operator Certification Form for Operator's signature (see Appendix C).

- Include a signed NOI and Operator Certification forms in the SWPPP

- Provide copies of the SWPPP to the Town of New Windsor of Orange County, NY once all signatures and attachments are complete.

- Prepare a Construction Site Log Book to be used in maintaining a record of all inspection reports generated throughout the duration of construction.

- Participate at pre-construction meeting with the Town of New Windsor representative, Operator, Contractor, and their sub-contractors to discuss responsibilities as they relate to the implementation of this SWPPP.

- Conduct an initial site assessment of the site prior to the commencement of construction and certify in an inspection report that the appropriate erosion and sediment control measures described within this SWPPP have been adequately installed.

- Provide on-site inspections at least every seven (7) calendar days and within 24 hours of the end of a storm event of ½-inch or greater to determine compliance with the SWPPP. The written Inspection Reports (Appendix D) shall be provided to the Operator within 48 hours of the field inspection with any deficiencies identified.

- Update the SWPPP each time there is a significant modification to the pollution prevention measures or a change of the principal Contractor working on the project who may disturb site soil.

- Provide the Operator certification that an inspection has been completed verifying that the site has undergone final stabilization using appropriate measures and that all temporary erosion and sediment controls have been removed.

- Transfer the SWPPP documents, along with all NOI's, permit certificates, NOT's, Construction Site Log Book, and written records required by the General Permit to the Operator for archiving.

## 2.6 Contractor's Responsibilities

- Send all notifications required by SPDES General Permit Number GP-02-01 via certified mail with return receipt. Copies of mailing receipts shall be kept on record at the project site with the SWPPP and shall be considered part of the contract documents.

- Sign the SWPPP Contractor's Certification Form contained within Appendix C and forward to the Operator's Engineer for inclusion into the SWPPP.

- Provide the names and addresses of all subcontractors working on the project site. Require all subcontractors who will be involved with the major construction activities that will result in soil disturbance sign a copy of the Contractor's Certification Form and forward to the Operator's Engineer for inclusion into the SWPPP. This information must be retained as part of the SWPPP.

- Participate in pre-construction meeting to discuss responsibilities as they relate to the implementation of this SWPPP.

- Implement site stabilization, erosion and sediment control measures, and other requirements of the SWPPP.

- Conduct weekly inspections, prepare, and retain written documentation of inspections as well as all repairs/maintenance activities performed on erosion and sediment control measures.

- Maintain a record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated, until such time as the NOT is filed.

## 3.0 PROJECT AND SITE DESCRIPTION

### 3.1 Project Description

The subject property is located in the northern quadrant of the Town of New Windsor, specifically between Silver Stream Road and NYS Thruway (I-87). The property is further identified as Tax Map Section 3, Block 1, Lot 15. For the location, refer to the Vicinity Map on the SWPPP Drawings. The character of Silver Stream Road is a combination of industrial and residential properties. NYS Route 207 is 950 feet south of the Piaria site, and it is a commercial corridor for the Town of New Windsor.

The project consists of the construction of a 10,300 SF building and an attached 5,180 SF canopy structure. Site improvements consist of one access from Silver Stream Road, and three parking areas totaling of 22 spaces. Water and sanitary sewer services will be provided by the Town of New Windsor. A storm water collection system is incorporated into the design of the site to convey flows to the open sand filter and the storm water detention basin.

### 3.2 Vegetation, Topography, And Soil Characteristics

The vegetation within the project site is primarily woods with light underbrush. The topography is moderate to steep with slopes varying from 5% to 20%, and from a maximum elevation of 440 feet to a minimum elevation of 386 feet. Located in the center of the project site is a ridge that creates two separate watershed areas, one draining to the NYS Thruway (Interstate No. 87) and the other to Silver Stream Road.

The United States Department of Agriculture (USDA) Soil Conservation Service's (SCS) Soil Survey for Orange County was reviewed for soil conditions on the project site. The Soil Survey identified the entire site as MdC series soil type, and its characteristics are as follows:

| | | |
|---|---|---|
| Permeability: | 0 inches - 8 inches | 0.6 to 2.0 inches per hour |
| | 8 inches -20 inches | 0.6 to 2.0 inches per hour |
| | 20 inches | > 0.2 |
| K Erosion Factor: | 0 inches - 8 inches | 0.24 |
| | 8 inches - 20 inches | 0.28 |
| | 20 inches | 0.28 |
| Shrink-Swell Pot.: | 0 inches - 8 inches | Low |
| | 8 inches - 19 inches | Low |
| | 19 inches | ------ |

T Erosion Factor: 2

Erosion Hazard: Slight

Depth To Bedrock: > 60 inches

Depth To Watertable: 18-inches to 24-inches

Potential Frost Erosion Moderate

## 3.3 Flood Plains And Surface Water Runoff

Based upon the National Flood Insurance Program Flood Insurance Rate Map (FIRM) for the Town Of New Windsor, New York, Community Panel Number 360628 0010 B, the project site is not located within any designated flood plains.

Storm water generated by the project site flows south on Silver Stream Road for approximately 950 feet, where it crosses NYS Route 207 via highway culverts, and ultimately discharges into the Silver Stream water course. Silver Stream flows south where it discharges into the Moodna Creek and ultimately into the Hudson River.

## 4.0 CONSTRUCTION SEQUENCE

This project has not received written approval from NYSDEC allowing the disturbance of more than five (5) acres of land at any one time. Therefore, if the Contractor's construction sequence requires the disturbance of more than five acres at any one time, written approval must be obtained from NYSDEC prior to the commencement of construction.

Described below are the major construction activities that are the subject of this SWPPP. They are presented in the sequence they are expected to begin, but each activity will not necessarily be completed before the next begins. Also, these activities could occur in a different order if necessary to maintain adequate erosion and sediment control.

The Construction Sequence will be as follows:

1. Review the Erosion And Sediment Control Plan to identify the areas of disturbance and those areas that are scheduled to remain undisturbed. Limit site disturbance at any time to the smallest area possible.

2. Prior to commencing construction activities, a licensed surveyor must flag the limits of disturbance necessary to develop the site and clearly delineate the project boundary lines to protect adjacent properties. Identify and protect those trees which can remain.

3. In the area designated on the Erosion And Sediment Control Plan, construct a Stabilized Construction Entrance to mitigate the potential of vehicles tracking sediment onto local roads. Restrict traffic to this one access point. Perform periodic inspections and maintenance of the Stabilized Construction Entrance including washing, top-dressing with additional stone, reworking, and compaction. Plan for periodic street cleaning to remove any sediment that may have been tracked off-site. Transport the removed sediment to a suitable disposal area where it can be stabilized.

4. Clear and grub those portions of the site that are scheduled for development. Stockpile on the lot the excavated topsoil and excessive quantities of subsurface soil, and protect stockpiled material with silt fence.

5. In the areas indicated on the Erosion And Sediment Control Plan, construct the temporary diversion swales and direct storm water to Silver Stream Road and away from construction activities. Place straw bale dykes across ends of diversion swales to contain sediment. Remove sediment and replace straw bale dykes on a monthly basis.

6. Regrade that portion of the site to allow the installation of the Sedimentation Trap, Emergency Spillway, and outlet piping. Regrade site in defined segments to allow the immediate installation of erosion control measures for that segment. Install silt fences at the base of all disturbed embankments. Within 7 days of completing rough grading, temporarily seed with hay mulch all embankments and disturbed areas. Haul excess material off-site to a point of legal disposal. Avoid grading activities during the rainy season (November through March).

7. Upon obtaining subgrade elevations, install the storm drainage system consisting of catch basins and piping. Modify the five catch basins as per Catch Basin Sediment Trap, and install the remaining Temporary Diversion Swales.

8. When excavating soils inclusive of the building foundation material, transport the soil to a location that will be vegetated. Piles should be situated so that sediment does not run onto the roadway or adjoining properties. Soil piles should be seeded and circled

with silt fence until the soil is either replaced or removed. Backfill the foundation walls as soon as possible. After backfilling, grade or remove excess soil from the site quickly to eliminate sediment loss from surplus fill.

9. Install remaining site utilities and complete final grading of the lot. Finish grading of the Sediment Trap to the dimensions required for the Storm Water Detention Basin. Remove perforated rise, install Outlet Control Structure, and finalize rip-rap Emergency Spillway. Install Sand Filter with inlet piping, outlet piping and overflow channel.

10. Stabilization measures must be initiated as soon as practicable, but in no case more than 14 days after the construction activity has ceased. In frozen ground conditions, stabilization measures must be initiated as soon as practicable.

11. Maintain erosion and sediment control practices through regular inspections. After initial groundbreaking, the Owner or its representative shall conduct site inspections at least once every 7 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater.

12. After final grading of the lot, spread stockpiled topsoil and permanently seed and hay mulch all disturbed surfaces. Apply seed mix and hay mulch to approximately 2 inches in thickness. If necessary, topsoil will be imported to the site for stabilization and landscaping uses. Imported soils will be seeded after two weeks storage to promote vegetative growth and its perimeter protected with silt fence. Do not remove Soil Erosion And Sediment Control measures until 30 days past stabilization

## 5.0 EROSION AND SEDIMENT CONTROL PRACTICES

### 5.1 Storm Water Impacts

Storm water discharges resulting from land development cause significant changes to the quantity and quality of surface waters. Land clearing and the development of a site alters its hydrology, therefore changing the characteristics of the surface and groundwater discharge. Changing the surface conditions alters a site's natural ability to store, treat, or infiltrate runoff. This change also allows for the discharge of potentially damaging pollutants and sediments to adjoining water bodies.

During construction, existing vegetation is removed and soils are stockpiled thereby exposing soils to erosive agents. Exposed soils, if left unstabilized, are subject to erosion either by rainfall events and severe wind conditions. Sediment discharged to adjacent sensitive areas, such as wetlands, can destroy its vegetation and natural habitat. This degradation of an environmentally sensitive area is usually irreversible and adversely affects the overall function of the ecosystem.

Also, the increase of turbidity levels in open water bodies, such as streams, ponds, and lakes have adverse effects on aquatic life and organisms. The implementation of proper erosion control measures and sediment containment will minimize and possibly eliminate these potential impacts.

Upon completion of the project its storm water also has the potential to convey pollutants such as Total Suspended Solids, Total Phosphorus, Total Nitrogen, and Biochemical Oxygen Demand all of which can impact off-site water bodies. Altering existing vegetative surfaces and replacing with impervious surfaces such as roads and buildings contribute to the increase of these pollutants in storm water discharge. Landscape areas that are subject to fertilizers, weed control, and pesticide products also have a large potential for these pollutants, which if discharged untreated could have long-term downstream impacts. A full listing of the potential pollutants typically contained in storm water can be found in Table 2.1 of the New York State Stormwater Management Design Manual.

This SWPPP has been prepared to minimize pollution typically generated by land development. The SWPPP has incorporated both Temporary Erosion And Sediment Control Measures, and Permanent Erosion And Sediment Control Measures, and Inspection And Maintenance Requirements.

## 5.2 Temporary Erosion and Sediment Control Measures

The temporary erosion and sediment control measures incorporated into the SWPPP are as follows:

1. Stabilized Construction Entrance
   Prior to construction, a stabilized construction entrance will be installed to reduce the tracking of sediment onto public roadways. Construction traffic must enter and exit the site at the stabilized construction entrance. The intent is to trap dust and mud that would otherwise be carried off-site by construction traffic.

   The entrance shall be maintained in a condition, which will control tracking of sediment onto public rights-of-way or streets. When necessary, the placement of additional aggregate atop the filter fabric will be done to assure the minimum thickness is maintained. All sediments and soils spilled, dropped, or washed onto the public rights-of-way must be removed immediately. Periodic inspection and needed maintenance shall be provided after each substantial rainfall event.

2. Silt Fencing
   Prior to the initiation of, and during construction activities, a silt fence will be established along the perimeter of areas to be disturbed as a result of the construction which lie up gradient of water courses or adjacent properties. These barriers may extend into non-impact areas to ensure adequate protection of adjacent lands.

Clearing and grubbing will be performed only as necessary for the installation of the sediment control barrier. To ensure effectiveness of the silt fencing, daily inspections and inspections immediately after significant storm events will be performed by site personnel. Maintenance of the fence will be performed as needed.

3. Diversion Swales
   Diversion swales shall be installed in the locations indicated on the SWPPP Drawings for the purpose of intercepting overland storm water flows from undisturbed areas and diverting around disturbed areas. The lining of the diversion swale shall be a function of the draiange area tributary to the swale and the slope of the swale itself.

4. Temporary Sedimentation Basin
   Temporary sediment basins shall be constructed to intercept sediment laden runoff and reduce the amount of sediment leaving the disturbed areas and to protect drainage ways, properties, and rights-of-way. Temporary sediment basins shall be inspected at least every seven (7) calendar days and within 24 hours of the end of a storm event of ½-inch or greater. All damages caused by soil erosion and construction equipment shall be repaired upon discovery. Accumulated sediment shall be removed from the basin when it reaches 50 percent of the design capacity.

5. Stone Check Dams
   Stone check dams will be installed within diversion swales to reduce the velocity of storm water runoff, to promote settling of sediment, and to reduce sediment transport offsite. The stone check dams shall be inspected at least every seven (7) calendar days and within 24 hours of the end of a storm event of ½-inch or greater. Damage will be repaired upon discovery. If significant erosion has occurred between structures, a liner of stone or other suitable material shall be installed in that portion of the channel.

   Sediment accumulated behind the stone check dam will be removed as needed to allow the channel to drain through the stone check dam and prevent large flows from carrying sediment over or around the dam. Stones shall be replaced as needed to maintain the design cross section of the structures.

6. Temporary Seeding
   Within 14 days after construction activity ceases on any particular area of the site, all disturbed areas where there will not be construction for longer than 21 days shall be temporarily seeded and mulched to minimize erosion and sediment loss.

7. Catch Basin Sediment Trap
   Upon installation of specific catch basins, the area around the inlet shall be excavated to the depth indicated on the SWPPP Drawings and filled with crushed stone or gravel. The perimeter or the gravel area shall be protected with silt fence, where combined they keep sediment from entering the catch basins and the storm sewer

system. During construction, crushed stone and silt fence shall be replaced as necessary to ensure proper function of the measure.

8. Erosion Control Blanket
   Erosion control blankets shall be installed on all slopes exceeding 3 horizontal to 1 vertical. Erosion control blankets provide temporary erosion protection, rapid vegetative establishment, and long-term erosion resistance to shear stresses associated with high runoff flow velocities associated with steep slopes.

9. Temporary Soil Stockpile
   Materials, such as topsoil and excavated soil, may be temporarily stockpiled on the site during construction. Stockpiles shall be located in areas away from drainage paths, water bodies and/or water courses ,and shall be protected from erosion by a silt fence barrier around its perimeter.

10. Dust Control
    Water trucks shall be used as needed during construction to reduce dust generated on the site. Dust control must be provided by the Contractor to a degree that is acceptable to the Owner, and in compliance with the applicable local and state dust control requirements.

## 5.3 Permanent Erosion and Sediment Control Measures

Permanent erosion and sediment control measures are included as part of the construction documents and include the following:

1. Establishment of Permanent Vegetation
   Disturbed areas that will be vegetated must be seeded, mulched, and maintained in accordance with the SWPPP Drawings. Upon obtaining final grade, all areas must be seeded and mulched within 14 days after completion of the major construction activity. All seeded areas should be protected with mulch.

   Final site stabilization is achieved when all soil-disturbing activities at the site has been completed and a uniform, perennial vegetative cover with a density of 80 percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

2. Rip-Rap Inlet And Outlet Protection
   Rip Rap inlet and outlet protection shall be installed at the locations as indicated on the SWPPP Drawings. The installation of rip-rap inlet and outlet protection will reduce the depth, velocity, and energy of water, such that the flow will not erode the receiving roadway drainage swale.

## 5.4 Additional Pollutant Controls

Additional pollutant controls are as follows:

1. Solid Waste Disposal
   No solid materials, including building materials, are allowed to be discharged from the site with storm water. All solid waste, including disposable materials incidental to the major construction activities, must be collected and placed in containers. The containers will be emptied periodically by a contract trash disposal service and hauled away from the site to a point of legal disposal. Additionally, substances that have the potential for polluting surface and/or groundwater must be controlled to ensure that they do not discharge from the site.

2. Sanitary Facilities
   Temporary sanitary facilities will be provided by the Contractor throughout the construction phase. They must be utilized by all construction personnel and will be serviced by a licensed commercial septage hauler.

## 5.5 Construction Housekeeping Practices

During construction the Contractor will implement the following measures:

1. Material resulting from the clearing and grubbing operation will be stockpiled up gradient from sedimentation controls.

2. The Contractor will designate areas for equipment cleaning, maintenance, and repair, and shall direct subcontractors will utilize those areas. The areas will be protected by a temporary perimeter berm.

3. The use of detergents for large scale washing of vehicles, buildings, and pavement surfaces is prohibited.

4. A Spill Prevention and Response Plan shall be developed for the site by the Contractor, and the plan shall detail the steps needed to be followed in the event of an accidental spill. Plan shall identify contact names and phone numbers of people and agencies that must be notified. The Plan shall include Material Safety Data Sheets (MSDS) for all materials to be stored on-site. All workers on-site will be required to be trained on safe handling and spill prevention procedures for all materials used during construction.

5. Construction materials shall be stored in a dedicated staging area. The staging area shall be located in an area that minimizes the impacts of the construction materials effecting storm water quality. Chemicals, paints, solvents, fertilizers, and other toxic material must be stored in waterproof containers. Except during application, the contents must be kept in trucks or within storage facilities. Runoff containing such

material must be collected, removed from the site, treated and disposed at an approved solid waste or chemical disposal facility.

## 5.6 Inspection and Maintenance Requirements

1. Pre-Construction Inspection and Certifications
   Prior to the commencement of construction, the Operator's Engineer shall conduct an assessment of the site to assure that appropriate erosion and sediment control structures have been adequately installed and implemented. The Contractor shall contact the Operator's Engineer once the erosion and sediment control measures have been installed.

2. Construction Inspection and Maintenance
   To ensure the stability and effectiveness of all protective measures and practices during construction, all erosion and sediment control measures employed will be inspected by the Operator's Engineer at least every seven (7) calendar days and within 24 hours of the end of a storm event of ½-inch or greater.

   In addition to the inspections performed by the Operator's Engineer, routine inspections shall be performed by the Contractor and include a visual check of all erosion and sediment control measures. All inspections and maintenance shall be performed in accordance with the inspection and maintenance schedule provided in this SWPPP. Sediment removed from erosion and sediment control measures will be exported from the site, stockpiled for later use, or used immediately for general non-structural fill.

3. Post-Construction Inspection and Maintenance
   Inspections shall be performed by the Operator in accordance with this SWPPP, when all disturbed areas are stabilized and all storm water management systems are in place and operable.

## 5.7 Reporting

Inspection and Maintenance Reports
Inspection/Maintenance Reports shall be prepared prior to, and during construction in accordance with the schedule outlined herein and in the SPDES General Permit GP-02-01. The reports shall be prepared to identify and document the maintenance of the erosion and sediment control measures. Specifically, each inspection shall record the following information:

1. On a site map, indicate the extent of all disturbed site areas and drainage pathways. Also, site areas that are expected to undergo initial disturbance or significant site work within the next 14 day period.

2. Indicate on a site map all areas of the site that have undergone temporary or permanent stabilization.

3. Indicate all disturbed site areas that have not undergone active site work during the previous 14 day period.

4. Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of the sediment storage volume (e.g., 10 percent, 20 percent, 50 percent, etc.).

5. Inspect and record all maintenance requirements of all erosion and sediment control practices. Identify any evidence of rill or gully erosion occurring on slopes and any loss of stabilizing vegetation or seeding/mulching. Document any excessive deposition of sediment or ponding water along barrier or diversion systems. Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated riser pipes to pass water.

5. All deficiencies identified with the implementation of the SWPPP.

Construction Site Log Book

The Operator shall retain a copy of the SWPPP required by NYSDEC SPDES General Permit GP-02-01 at the construction-site from the date of initiation of construction activities to the date of final stabilization. During construction, the Operator or Operator's representative shall maintain a record of all erosion and sediment control inspection reports at the site in a Construction Site Log Book. The Construction Site Log Book shall be maintained on-site and made available to the permitting authority.

Post Construction Records and Archiving

Following construction, the Operator shall retain copies of the SWPPP, the complete Construction Site Log Book, and records of all data used to complete the NOI to be covered by this Permit, for a period of at least three years from the date that the site is finally stabilized. The Operator should maintain a record of all Post-construction inspections and maintenance work performed in accordance with the requirements outlined in the SWPPP.

## 6.0 STORM WATER MANAGEMENT PRACTICES

### 6.1 Collection System

The storm water collection system has been designed to convey Post-development storm water generated by on-site tributary areas. Storm water flows from lands north of the site have been

diverted from the developed portion of the site toward Silver Stream Road. The collection system will be a closed drainage system consisting of precast concrete catch basins and PVC piping.

The collection system has been designed utilizing the Rational Formula to accommodate runoff from a storm having a 25-year return frequency. Advanced Drainage Systems N-12 pipe, having a Manning's Coeff. of 0.012, was used in all pipe design calculations. Rainfall intensity values were obtained from the "Rainfall Intensity Curves For Poughkeepsie, N.Y" as issued by the NYSDOT. Details of the storm water collection system are indicated on the SWPPP Drawings.

## 6.2 Peak Storm Water Flows

### Methodology

Generally, the development of a site will accelerate storm water runoff by creating impervious areas which allow rainfall to concentrate, and travel more quickly off-site. Runoff volumes are also increased due to the elimination of vegetated areas which allow rainfall to infiltrate into the soil. Mitigation of these development impacts require storm water management practices to attenuate the increases in peak discharges and to decrease runoff volumes.

To study watershed runoff, a hydrologic model of the site has been developed using procedures outlined in the NRCS (formerly U.S. Department Of Agriculture) Soil Conservation Service Curve Number Method. This methodology was used in conjunction with Haestad Method's "Pondpack" software to generate peak runoff rates and hydrographs for analysis of Pre- and Post-development Conditions. This methodology considers rainfall events with 24-hour durations. The total rainfall amounts for various frequency storms follow a synthetic distribution based on National Weather Service duration frequency data. The analysis for the Piaria site is based on a Type III storm event which represents the spatial distribution of rainfall in the Atlantic Coastal Region. 24 hour rainfall amounts used in the analysis were obtained from maps provided in the NRCS Soil Conservation Service Publication TR-40 and are as follows:

| FREQUENCY (Years) | RAINFALL AMOUNTS (Inches) |
|---|---|
| 1 | 3.0 |
| 10 | 5.5 |
| 25 | 6.0 |
| 100 | 8.0 |

### Pre-Developed Conditions And Runoff

A watershed model was developed to examine the site under Pre-developed Conditions. The model reveals two subareas tributary to Silver Stream Road that incorporates 3.38 acres of the 4.28 acre project site. The remaining 0.90 acres of the project site is tributary to Interstate No. 87 (NYS Thruway) and will remain undisturbed. For these reasons this area has been excluded from further examination in this model.

The contributing subareas are as follows:

Subarea On-1 encompasses 2.44 acres of wooded area in the northerly portion of the project site. Storm water runoff flows overland to the southwest where it discharges into the existing roadside drainage swale along the easterly side of Silver Stream Road. Study Point A is defined as that point in the roadside drainage swale at the southerly boundary of the site.

Subarea On-2, also wooded, is located in the southerly portion of the project site and is 0.94 acres in size. Storm water from this subarea flows south onto the lands of Pason and Reinhold and then west into the above mentioned roadside drainage swale. Study Point B is identified as the lands of Pason and Reinhold that receives overland flow from Subarea On-2. Study Point C is located in the roadside drainage swale south of the southerly boundary where storm water flows from Subarea On-1 combines with storm water flows from Subarea On-2.

The following is a summary of the site's Pre Development peak discharge:

Subarea On-1

| Time of Concentration<br>2-Yr 24 Hr Rainfall = 3.5 In | Surface Cover | Manning n | Flow Length/<br>Avg Velocity | Slope/<br>Tc |
|---|---|---|---|---|
| - Sheet Flow | Wooded | .40 | 150 Ft<br>0.2 Fps | 12.0%<br>0.23 Hrs |
| - Shallow Flow | Unpaved | - | 304 Ft<br>5.7 Fps | 12.5%<br>0.01 Hrs |

| Storm | Precipitation | Runoff | Peak Discharge | Total Volume |
|---|---|---|---|---|
| 1 Year | 3.0 Inches | 0.71 Inches | 1.3 Cfs | .145 Ac-Ft |
| 10 Year | 5.5 Inches | 2.41 Inches | 5.0 Cfs | .491 Ac-Ft |
| 25 Year | 6.0 Inches | 2.81 Inches | 5.8 Cfs | .570 Ac-Ft |
| 100 Year | 8.0 Inches | 4.46 Inches | 9.3 Cfs | .908 Ac-Ft |

Subarea On-2

| Time of Concentration<br>2-Yr 24 Hr Rainfall = 3.5 In | Surface Cover | Manning n | Flow Length/<br>Avg Velocity | Slope/<br>Tc |
|---|---|---|---|---|
| - Sheet Flow | Wooded | .40 | 150 Ft<br>0.2 Fps | 12.0%<br>0.23 Hrs |
| - Shallow Flow | Unpaved | - | 325 Ft<br>5.6 Fps | 11.9%<br>0.02 Hrs |

| Storm | Precipitation | Runoff | Peak Discharge | Total Volume |
|---|---|---|---|---|
| 1 Year | 3.0 inches | 0.71 Inches | 0.5 Cfs | .056 Ac-Ft |
| 10 Year | 5.5 inches | 2.41 Inches | 1.9 Cfs | .189 Ac-Ft |

| Storm | Precipitation | Runoff | Peak Discharge | Total Volume |
|---|---|---|---|---|
| 25 Year | 6.0 inches | 2.81 Inches | 2.2 Cfs | .220 Ac-Ft |
| 100 Year | 8.0 inches | 4.46 Inches | 3.6 Cfs | .350 Ac-Ft |

Study Point A

| Storm | Subarea On-1 | Subarea On-2 | Total Discharge-Study Point A |
|---|---|---|---|
| 1 Year | 1.3 Cfs | 0.5 Cfs | 1.8 Cfs |
| 10 Year | 5.0 Cfs | 1.9 Cfs | 6.9 Cfs |
| 25 Year | 5.8 Cfs | 2.2 Cfs | 8.1 Cfs |
| 100 Year | 9.3 Cfs | 3.6 Cfs | 12.9 Cfs |

**Post-Developed Conditions And Runoff**

Under Post-developed conditions, the character and limits of the subareas will be altered by the construction of the proposed steel fabricating building, parking lot, and appurtenant site improvements. Impervious areas such as the parking areas, driveways, and roofs infiltrate less rainfall than most natural ground covers and, due to their smooth surfaces, will accelerate runoff. These factors combine to increase storm water discharge rates subsequent to construction. The majority of the project storm water runoff will be collected by the storm water collection system located within Subarea On-1A and will be conveyed to the storm water detention basin. The Post-development storm water model is re-configured as follows:

Subarea On-1A encompasses the majority of the developed project site and totals 2.19 acres. Storm water generated by this subarea is collected by the site's storm water collection system and discharges into the storm water detention basin.

Subarea On-1B is 0.42 acres in size and incorporates the northerly portion of the site. Storm water from Subarea On-1B flows overland to the west into the easterly roadside drainage swale of Silver Stream Road.

Subarea On-2 is 0.77 acres in size and encompasses the central portion of the site. Storm water from this subarea continues to flow overland onto the lands of Pason and Reinhold before discharging into the Silver Stream Road drainage swale. As under Pre-development Conditions, storm water flows from the entire project site combines at Study Point C.

The following is a summary of the site's Post Development peak discharge:

## Subarea On-1A

| Time of Concentration<br>2-Yr 24 Hr Rainfall = 3.5 In | Surface Cover | Manning n | Flow Length/<br>Avg Velocity | Slope/<br>Tc |
|---|---|---|---|---|
| - Sheet Flow | Grass | .24 | 73 Ft<br>0.3 Fps | 23.9%<br>0.07 Hrs |

| - Channel Flow | Hydraulic Radius | Cross-Section Area | Manning n | Flow Length/<br>Avg Velocity | Slope/<br>Tc |
|---|---|---|---|---|---|
| | 0.31 Ft | 1.23 $Ft^2$ | .012 | 443 Ft<br>9.2 Fps | 2.6%<br>.01 Hrs |

| Storm | Precipitation | Runoff | Peak Discharge | Total Volume |
|---|---|---|---|---|
| 1 Year | 3.0 Inches | 1.47 Inches | 3.3 Cfs | .264 Ac-Ft |
| 10 Year | 5.5 Inches | 3.63 Inches | 8.1 Cfs | .662 Ac-Ft |
| 25 Year | 6.0 Inches | 4.09 Inches | 9.1 Cfs | .747 Ac-Ft |
| 100 Year | 8.0 Inches | 5.98 Inches | 13.0 Cfs | 1.091 Ac-Ft |

## Subarea On-1B

| Time of Concentration<br>2-Yr 24 Hr Rainfall = 3.5 In | Surface Cover | Manning n | Flow Length/<br>Avg Velocity | Slope/<br>Tc |
|---|---|---|---|---|
| - Sheet Flow | Woods | .40 | 100 Ft<br>0.2 Fps | 13.7%<br>0.16 Hrs |
| - Shallow Concentrated Flow | Unpaved | - | 90 Ft<br>5.2 Fps | 10.3%<br>0.00 Hrs |

| Storm | Precipitation | Runoff | Peak Discharge | Total Volume |
|---|---|---|---|---|
| 1 Year | 3.0 Inches | 0.81 Inches | .3 Cfs | .028 Ac-Ft |
| 10 Year | 5.5 Inches | 2.59 Inches | 1.0 Cfs | .091 Ac-Ft |
| 25 Year | 6.0 Inches | 2.99 Inches | 1.2 Cfs | .105 Ac-Ft |
| 100 Year | 8.0 Inches | 4.69 Inches | 1.9 Cfs | .164 Ac-Ft |

## Subarea On-2

| Time of Concentration<br>2-Yr 24 Hr Rainfall = 3.5 In | Surface Cover | Manning n | Flow Length/<br>Avg Velocity | Slope/<br>Tc |
|---|---|---|---|---|
| - Sheet Flow | Woods | .40 | 100 Ft<br>0.1 Fps | 4.0%<br>0.26 Hrs |
| Shallow Concentrated Flow | Unpaved | - | 290 Ft<br>5.0 Fps | 9.5%<br>0.02 Hrs |

| Storm | Precipitation | Runoff | Peak Discharge | Total Volume |
|---|---|---|---|---|
| 1 Year | 3.0 Inches | 0.76 inches | .4 Cfs | .049 Ac-Ft |
| 10 Year | 5.5 Inches | 2.50 Inches | 1.6 Cfs | .161 Ac-Ft |
| 25 Year | 6.0 Inches | 2.90 Inches | 1.8 Cfs | .186 Ac-Ft |
| 100 Year | 8.0 Inches | 4.58 Inches | 2.9 Cfs | .294 Ac-Ft |

The following is an analysis of Pre- and Post-development flows discharging onto the lands of Pason and Reinhold designated as Study Point B.

Pre- And Post-Development Storm Water Runoff

| Subarea | Prop./ Exist. | Drainage Area (Acres) | Peak Runoff For Studied Storm Frequencies 1 Yr (Cfs) | 10 Yr. (Cfs) | 25 Yr. (Cfs) | 100 Yr. (Cfs) |
|---|---|---|---|---|---|---|
| Study Point B (On-2) | Exist. | 0.94 | 0.5 | 1.9 | 2.2 | 3.6 |
| Study Point B (On-2) | Prop. | 0.77 | 0.4 | 1.6 | 1.8 | 2.9 |

**Storm Water Detention**

Mitigation of Post-development storm water impacts will be achieved through the construction of a storm water detention basin which will be located in the southerly portion of the site. This basin will collect storm water from majority of the developed project site, specifically Subarea On-1A. Runoff from this contributing drainage area will be held within the basin and released at a regulated rate through a controlled outlet structure consisting of a 2-inch diameter orifice, and a 2-foot wide rectangular weir. The basin will provide the required volume to satisfy the requirements of Stream Channel Protection. Also, the combined peak discharge from the site under Post-Developed Conditions will not exceed the levels of runoff discharging from the site under Pre-Developed Conditions for storms having a return frequency of 10 Years, 25 Years and 100 Years.

The table below summarizes the basin's performance characteristics with respect to detaining peak storm water flows:

Detention Basin Performance

| | | |
|---|---|---|
| Berm Top Elevation | = Elev. 392.0 | |
| Maximum Storage | = 0.824 Ac.-Ft. | @ Elev. 392.0 |
| Outlets | = 2" Dia. Orifice | @ Elev. 386.00 |
| | = 2.0 LF Weir | @ Elev. 388.50 |

where $Q_{orifice} = ca\ (2gh)^{0.5}$ $c = 0.60$
$Q_{weir} = cl\ (h)^{\wedge 1.5}$ $c = 3.0$

| Storm Frequency | Peak Inflow | Peak Outflow | Maximum Stage |
|---|---|---|---|
| 1 Yr | 3.3 Cfs | 0.2 Cfs | Elev. 387.89 |
| 10 Yr | 8.1 Cfs | 2.5 Cfs | Elev. 389.02 |
| 25 Yr | 9.1 Cfs | 3.5 Cfs | Elev. 389.16 |
| 100 Yr | 13.0 Cfs | 7.9 Cfs | Elev. 389.68 |

Upon exiting the detention basin, the outflow combines with the runoff from Subareas On-1B, and On-2. The sum of these runoffs represents the total runoff from the site to Silver Stream Road. The following Table represents the peak runoff rates for 4 studied storm frequencies under Pre- and Post-development Conditions.

Pre- And Post-Development Storm Water Runoff

| Subarea | Prop./ Exist. | Drainage Area (Acres) | Peak Runoff For Studied Storm Frequencies 1 Yr (Cfs) | 10 Yr. (Cfs) | 25 Yr. (Cfs) | 100 Yr. (Cfs) |
|---|---|---|---|---|---|---|
| Study Point C (On-1A & On-1B) | Exist. | 3.38 | 1.8 | 6.9 | 8.1 | 12.9 |
| Study Point C (On-1A, On-1B & On-2) | Prop. | 3.38 | 0.8 | 4.4 | 6.1 | 12.7 |

## 6.3 Channel Protection Volume

In order to provide stream channel protection from Post-development flows, additional storage has been incorporated into the Detention Basin to detain and release over 24 hours the 1-Year Storm Event representing 3-inches of rain. This storage from the three post-development subareas is computed at 9,762 Cf, and represents the volume in the basin from its bottom (Elev. 3860) to Elev. 388.50. To satisfy the 24-hour requirement for discharge, storm water will be released from the basin at a rate of 0.11 Cfs. A 2-inch orifice at Elev. 386.0 in the outlet control structure will regulate this outflow, and this will be in addition to the 2-foot wide weir that detains peak flows to Pre-development rates.

## 6.4 Water Quality Volume

To mitigate the increased levels of the Post-development pollutants, the SPDES General Permit GP-02-01 requires that a specific volume of storm water runoff be captured and treated by practices described in the Storm Water Management Design Manual. This specific volume is determined utilizing the Unified Storm Water Sizing Criteria which computes the runoff volume based upon a rainfall of 90% of the average annual storm event. For the project this 90% of the average annual storm is equivalent to 1.2 inches of rain.

To the greatest extent possible, storm water will be collected and treated on-site so as to remove its pollutants prior to discharge to the Silver Stream Road drainage system. The treatment practice selected is an open Sand Filter, and this selection was based upon the constraints of the site and its small drainage area.

Pretreatment within the Sand Filter will consist of a sedimentation chamber which has been sized for 25% of the Water Quality Volume (WQv). The entire treatment chamber is sized to temporarily hold a minimum of 75% of the WQv prior to filtration. The filter media will have a depth of 18-inches in accordance with the Storm Water Management Design Manual and the media will be medium sand conforming to ASTM C-33. An underdrain system will be installed in the bottom of the filter bed to collect the filtered water and return it to the existing roadside system along side Silver Stream Road.

The followings are the design parameters and characteristics of the Sand Filter:

| | | | |
|---|---|---|---|
| Percent Impervious (I) | = | 57.50% | |
| Runoff Value (Rv) | = | .5675 | |
| Water Quality Vol. (WQv) | = | 0.068 Ac-Ft. | (2,979 CF) |

| | |
|---|---|
| Peak Discharge To The Sand Filter | .84 Cfs |
| Size Of Sedimentation Chamber | |
| Required Vol. (25% of WQv) | 745 Cf |
| Provided Vol. (15 Ft x 20 Ft x 2.5 Ft) | 750 Cf |
| Size Of Filtration Chamber | |
| Required Vol. (75% of WQv) | 2,235 Cf |
| Provided Vol. | 2,985 Cf |
| Total Storage In Filtration Chamber | |
| Required Volume | 2,979 Cf |
| Provided Volume | 3,735 Cf |

## 7.0 CONCLUSION

This Storm Water Pollution Prevention Plan provides the required hydrologic and hydraulic analysis necessary to manage post-development storm water flows. The selected Storm Water Management Plan will collect and detain post-development flows for 4 selected storm frequencies to insure that there will be no significant adverse impacts to the adjacent or downstream properties. The comparison of Pre- and Post-development discharges rate are presented in Section 6.2.

This Storm Water Pollution Prevention Plan selects the appropriate Storm Water Management Practice to treat the water quality volume generated by the development of the subject site.

Erosion and sediment control measures have been selected to minimize the potential for discharging pollutants and sediments to adjacent properties and adjoining water bodies.

In conclusion, it is our opinion that the proposed development will not adversely impact adjacent or downstream properties if the storm water management facilities are properly constructed, and maintained in accordance with the requirements outlines herein.

# APPENDIX A

# NYSDEC SPDES GENERAL PERMIT GP-02-01

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

from

**CONSTRUCTION ACTIVITY**

Permit No. GP-02-01

Issued Pursuant to Article 17, Titles 7, 8 and Article 70
of the Environmental Conservation Law

Effective Date: January 8, 2003

Expiration: January 8, 2008

William R. Adriance
Chief Permit Administrator

Address: NYS DEC
Div. Environmental Permits
625 Broadway, 4th Floor
Albany, N.Y. 12233-1750

Authorized Signature

William R. Adriance

Date: January 8, 2003

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# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
# SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY

## Preface

Pursuant to Section 402 of the Clean Water Act ("CWA"), stormwater discharges from certain construction activities to waters of the United States[1] are unlawful unless they are authorized by a NPDES (National Pollutant Discharge Elimination System) permit or by a state permit program. New York's SPDES (State Pollutant Discharge Elimination System) is a NPDES-approved program with permits issued in accordance with the Environmental Conservation Law ("ECL"). Discharges of pollutants to all other "Waters of New York State" such as groundwaters are also unlawful unless they are authorized by a SPDES permit.

A discharger, owner, or operator may[2] obtain coverage under this general permit by submitting a Notice of Intent ("NOI") to the Department. Copies of this General Permit and the NOI for New York are available by calling (518) 402-8109 or at any Department of Environmental Conservation (the Department) regional office (see Appendix A on Page 23). They are also available on the Department's website at:

www.dec.state.ny.us

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[1] "Waters of the United States" means:

(a) All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide; and
(b) All interstate waters, including interstate "wetlands"; and
(c) All other waters such as interstate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:
    (1) Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
    (2) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
    (3) Which are used or could be used for industrial purposes by industries in interstate commerce; and
(d) All impoundments of waters otherwise defined as waters of the United States under this definition; and
(e) Tributaries of waters identified in paragraphs (a) through (d) of this definition; and
(f) The territorial sea; and
(g) Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a) through (f) of this definition.

Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the CWA are not waters of the United States. This exclusion applies only to manmade bodies of water which neither were originally created in waters of the United States (such as disposal areas in wetlands) nor resulted from the impoundment of waters of the United States.

[2] "may" refers to circumstances under which the discharger is ineligible for coverage under this general permit because of other provisions of this permit. Dischargers which are excluded from coverage under this general permit as provided for in Part I, Section C, for example, are not authorized to discharge under this permit. This also applies to possible situations in which an NOI has been submitted and/or a regulatory fee paid pursuant to Article 72 of the ECL. The submittal of an NOI and/or regulatory fee has no bearing or relevance whatsoever on the eligibility of the construction activity discharging stormwater runoff under the authority of this permit.

## Local Programs of a Regulated MS4

Under the federal Phase II stormwater program, many cities, villages, towns, and other public entities in New York State which are located within "Urbanized Areas" as defined by the U.S. Census and who operate a Municipal Separate Storm Sewer System ("MS4") will be required to obtain SPDES permit coverage for stormwater discharges under their jurisdiction and control (see 40CFR Part 122 §122.26.32). Additionally, MS4s may be designated by the Department as regulated MS4s. Among other requirements, the Phase 2 NPDES stormwater regulations require regulated MS4s to address stormwater runoff from construction activities. Construction activities covered under this general permit, which are subject to stormwater runoff controls of a regulated MS4, will also need to comply with the MS4's controls.

## Five (5) Day Coverage

Prior to the submission of an NOI, the owner or operator must have completed a Storm Water Pollution Prevention Plan (SWPPP) that complies with all requirements of this general permit. Submitting an NOI is an affirmation that a SWPPP has been prepared and will be implemented. If an applicant certifies that the SWPPP has been developed in conformance with the Department's technical standards, the applied-for activity may obtain coverage under this general permit in five (5) business days after the Department's receipt of the NOI provided, that the activity is eligible for coverage under this general permit and that the Department has not informed the applicant otherwise.

## Sixty (60) Day Coverage

While the Department's technical standards are appropriate statewide, it is recognized that there may be situations where stormwater management goals can best be met by alternative means that are more suitable given local conditions.

For construction projects in these situations, applicants must identify in their NOI each of the deviations from the Department's technical standards that they are seeking. Applicants must also explain why the deviations are needed or desired and what impacts to water quality, if any, can be expected if the deviation were allowed. Applicants must also explain the actions, if any, that local board(s) have taken with respect to the deviation(s). For applicants which cannot certify conformance with the Department's technical standards, the SWPPP must also be certified by a licensed/certified professional that the SWPPP has been developed in a manner which will insure compliance with water quality standards and with the substantive intent of this permit.

In cases of deviations from the Department's technical standards, applicants must allow sixty (60) business days after the receipt by the Department of a completed NOI and certification before gaining coverage under this general permit and before initiating any construction activity. During this 60 day period, the Department may conduct further review of the NOI and SWPPP. If additional information is needed to complete the review, the NOI will be considered

incomplete and the applicant will be so advised. The intent of this provision is to require conformance the Department's technical standards wherever possible and appropriate. At the same time, alternative means to address stormwater control may be allowed under this general permit where they are more suitable for the site in question and where they will not diminish water quality protection.

There are other scenarios under which coverage under this general permit will not occur until 60 business days from the receipt of a completed NOI. For example, if the construction activity or post construction runoff causes the discharge of a pollutant of concern to a water identified on the 303(d) list or a watershed with an approved TMDL for that pollutant of concern, coverage under the general permit will not occur until sixty (60) business days from the receipt by the Department of a completed NOI. For these projects the operator may be required to submit the SWPPP and/or appropriate certification(s) to the Department for review. The flowchart shown in Figure 1 on page vi will help to describe the process under which certain conditions exist that require possible further analysis and water quality/quantity considerations.

**Computer Tool Available For Completion of SWPPPs and NOIs Under Development**

The Department is currently developing an interactive computer software tool entitled "How to Prepare SWPPPs and Notices of Intent" to assist applicants in both developing SWPPPs and completing NOIs. This will be available in the near future for use on the Department website as well as being packaged independently on compact discs. This tool will contain guidance as well as many useful links to reference materials and documents concerning erosion and sedimentation control. as well as to the design of stormwater management practices . The Department's website will contain the latest information and guidance on the various tools available.

**The Department's Technical Standards**

The Department's technical standards for erosion and sediment control are contained in the document, *"New York Standards and Specifications for Erosion and Sediment Control"*[3] published by the Empire State Chapter of the Soil and Water Conservation Society. For the design of water quantity and water quality controls (post-construction stormwater control practices), the Department's technical standards are detailed in the *"New York State Stormwater Management Design Manual."* Both of these documents are available on the Department's website. If an applicant certifies that stormwater management practices will conform to the Department's technical standards, then coverage under the permit may occur sooner than otherwise would be the case if non-conformance with the manuals existed. See Figure 1 on page vi for more information.

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3 Previously, the *"New York Guidelines for Urban Erosion and Sediment Control"*, also commonly referred to as the "Blue Book".

## Permit Valid for Any Size Disturbance

This permit may be used for construction activities involving any amount of disturbed acreage, provided that all other eligibility conditions in subsection B of Part I are satisfactorily met (see page 2 of this permit). Thus, this permit may apply to activities identified under 40 CFR Part 122, subsection 122.26(b)(14)(x) which are also referred to as "NPDES Phase 1 construction activities" involving soil disturbances of five (5) acres or more. This permit may also apply to activities identified under 40 CFR Part 122, subsection 122.26(b)(15) which are also referred to as "NPDES Phase 2 small construction activities" involving soil disturbances of between one (1) and five (5) acres. And, this permit may also apply to construction activities involving soil disturbances of less than one (1) acre if the Department determines that a SPDES permit is required pursuant to the ECL. In any and all cases, all of the eligibility provisions of this general permit must be met in order to gain coverage.

## Notice of Termination

After construction is completed as defined in the general permit (see Part II beginning on Page 7), cancellation of coverage is accomplished by the submittal of a Notice of Termination ("NOT"). Failure to submit a NOT may result in the continued obligation to pay a yearly Regulatory Fee established pursuant to Article 72 of the ECL and/or may be cause for suspension of permit coverage.

Previous versions of NOIs, NOTs and Notices of Intent, Transfer and Termination ("NOITT"s) cannot be used in conjunction with this general permit. There is a new NOI required for obtaining coverage under this general permit. Failure to include information identified as "mandatory" entries on the new NOI form may prevent and/or delay discharge authorization being sought under this permit.

The new NOT will also include an identification of any permanent structures that are being left on the site after stabilization occurs and after termination of permit coverage under this general permit. The NOT will also include a certification that the structures were constructed as described in the SWPPP and that an Operation and Maintenance ("O&M") manual has been prepared and has been made available to the owner of such permanent structures who is expected to conduct the necessary O&M over the life of the structure(s).

## Ineligible Activities

The submittal of a completed NOI and/or the payment of an annual regulatory fee by an applicant does not necessarily mean that an applicant is covered under this permit if the applicant is ineligible for coverage under this permit under the terms cited in Part I of this permit. In other words, submitting a completed NOI and paying an annual regulatory fee does not automatically gain an applicant permit coverage if the applicant is ineligible for coverage under this permit even if the Department fails to immediately inform the applicant of such ineligibility.

## Permit Expiration Date

Coverage under this general permit is available January 8, 2003 and will expire five (5) years after issuance on January 8, 2008.

## Activities Previously Covered Under GP-93-06

In a separate proposal, the Department is also concurrently seeking to re-issue GP-93-06 with an expiration of August 1, 2003. The purpose of this action is to provide a transition period for permittees which have had SPDES permit coverage under GP-93-06 immediately prior to January 8, 2003, the effective date of GP-02-01. **Prior to August 1, 2003**, these activities will need to:
(1) stabilize their sites in accordance with GP-93-06 and submit an NOT; or, if necessary,
(2) gain coverage under GP-02-01 by submitting a new NOI.

For **new** construction activities, coverage under GP-93-06 will not be available after the effective date of GP-02-01, January 8, 2003. Such discharges may be eligible for coverage under GP-02-01 (see Part I.B. on page 2 of this permit).

## Water Quality Violations Not Permitted

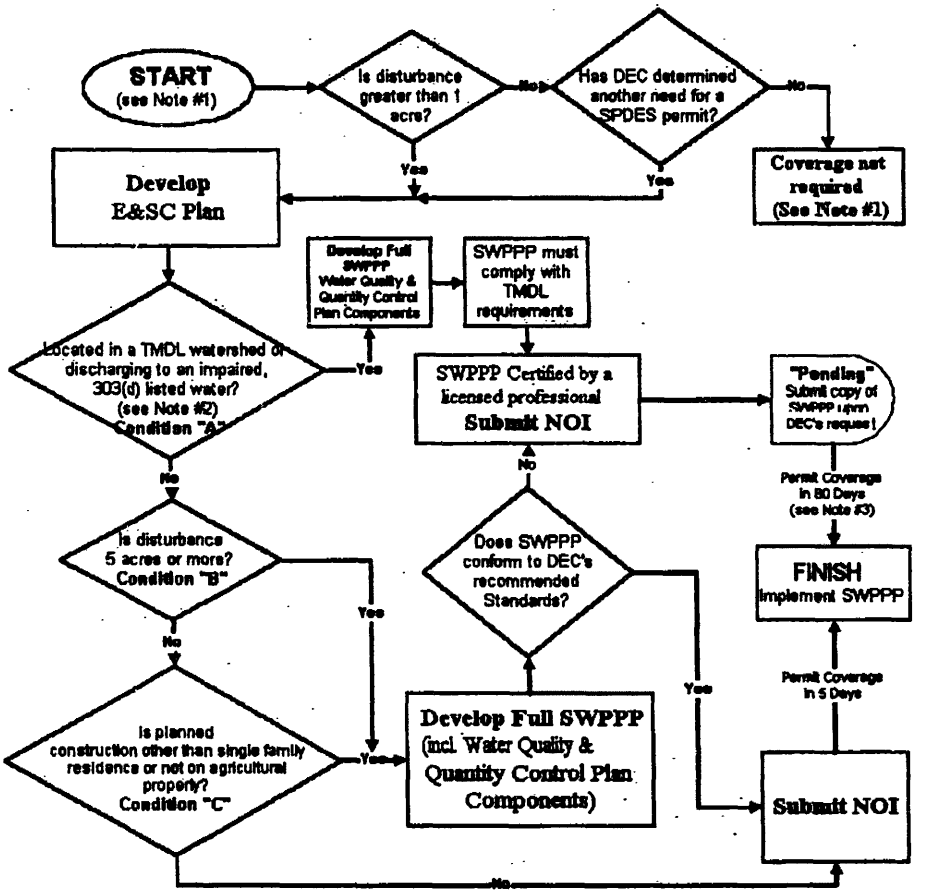
This permit does not authorize any person to cause or contribute to a condition in contravention of any water quality standards that are contained in the Rules and Regulations of the State of New York (see Part I of this permit on page 2) even if the permittee is in compliance with all other provisions of this permit. Any violations of water quality standards may be considered by the Department to be violations of this permit and/or the ECL, including its accompanying regulations.

## Other Department Permits

Construction activities may also require other Department permits in addition to the coverage provided by this general permit including, but not limited to, dam safety, wetlands and stream protection. Such other Department permits must be obtained separately from coverage under this general permit. Further information concerning these permits should be sought from the Regional Permit Administrator at the appropriate Department regional office (See Appendix A on page 23).

FIGURE 1

SWPPP and Stormwater Permit Process




NOTES:

1. Under any of the above conditions other environmental permits may be required. DEC may require permit for construction disturbance < 1 acre on a case by case basis.
2. **and** the following exists: construction and/or stormwater discharges from the construction or post-construction site contain the pollutant of concern identified in the TMDL or 303(d) listing.
3. After receipt by DEC of completed application.

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**
**SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES**

**FROM CONSTRUCTION ACTIVITIES**

**TABLE OF CONTENTS**

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## Part I. COVERAGE UNDER THIS PERMIT

A. **Maintaining Water Quality** - It shall be a violation of this general permit and the Environmental Conservation Law ("ECL") for any discharge authorized by this general permit to either cause or contribute to a violation of water quality standards as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York including, but not limited to:

1. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions;

2. There shall be no increase in suspended, colloidal and settleable solids that will cause deposition or impair the waters for their best usages; and

3. There shall be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

B. **Eligibility Under This General Permit**

1. This permit may authorize all discharges of stormwater from construction activity[4] to surface waters and groundwaters except for ineligible discharges identified under subparagraph C of this Part (see below). Discharge authorization under this permit requires the submittal of a completed NOI.

2. Except for non-stormwater discharges explicitly listed in the next paragraph, this permit only authorizes stormwater discharges from construction activities.

3. Notwithstanding paragraphs B.1 and B.2 above, the following non-stormwater discharges may be authorized by this permit: discharges from fire

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[4] This includes discharges of stormwater associated with industrial activity identified under 40 CFR Part 122, subsection 122.26(b)(14)(x), small construction activities identified under 40 CFR Part 122, subsection 122.26(b)(15) or any other stormwater from construction activities that are not otherwise ineligible for coverage under this permit (See Part I, subsection B beginning on page 2).

fighting activities; fire hydrant flushings; waters to which cleansers or other components have **not** been added that are used to wash vehicles or control dust in accordance with the SWPPP, routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; springs; and foundation or footing drains where flows are not contaminated with process materials such as solvents. For those entities required to obtain coverage under this general permit, and who discharge as noted in this paragraph, and with the exception of flows from fire fighting activities, these discharges must be identified in the SWPPP(see Part III beginning on Page 7). Under all circumstances, the permittee must still comply with water quality standards (see Part I, subsection A on Page 2).

C. **Activities Which Are Ineligible for Coverage Under This General Permit** - All of the following stormwater discharges from construction activities are **not** authorized by this permit:

1. Discharges after construction activities have been completed and the site has undergone final stabilization[5];

2. Discharges that are mixed with sources of non-stormwater other than those expressly authorized under subsection B.3. of this Part (see page 3) and identified in the SWPPP required by this permit;

3. Discharges that are subject to an existing SPDES individual or general permit or which are required to obtain an individual or alternative general permit pursuant to Part V, subparagraph K (see page 21) of this permit;

4. Discharges that are likely to adversely affect a listed, or proposed to be listed, endangered or threatened species, or its critical habitat;

5. Discharges which are subject to an existing effluent (limitation) guideline addressing stormwater and/or process wastewater unless said guidelines are contained herein; or

6. Discharges which either cause or contribute to a violation of water quality standards adopted pursuant to the ECL and its accompanying regulations (See subsection A of Part I on page 2).

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[5] "Final Stabilization" means that all soil disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of 80% has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

D. **Authorization Under This General Permit**

1. An operator[6] must submit a completed NOI form in order to be authorized to discharge under this general permit. The NOI form shall be one which is associated with this general permit, signed in accordance with Part V. H.(see Page 19) of this permit and submitted to the address indicated on the NOI form. NOIs and NOITTs used in association with either previous or other general permits are not valid for obtaining coverage under this general permit. The submittal of an NOI is an affirmation to the operators' understanding and belief that the activity is eligible for coverage under this permit and that a SWPPP has been prepared and will be implemented in accordance with Part III of this permit.

2. All contractors and subcontractors of the operator identified under Part III.E.1 (see page 17) must provide the certification cited under Part III.E.2 (see page 17). Such certifications shall become part of the SWPPP for the construction activity covered under this general permit.

3. Unless notified by the Department to the contrary, operators who are eligible for coverage under this permit **and** who submit an NOI in accordance with the requirements of this permit, may be authorized to discharge stormwater from construction activities under the terms and conditions of this permit, and in accordance with the following timetable:

a. For construction activities which:

(1) develop a SWPPP in conformance with the Department's technical standards (See subsection D of Part III on page 10), and do not or will not discharge a pollutant of concern to an impaired water or a TMDL watershed;

**or**

(2) as of the effective date of this general permit, GP-02-01, have obtained coverage under, and are operating in compliance with, GP-93-06; and do not or will not discharge a pollutant of concern to an impaired water or a TMDL watershed;

authorization to discharge under this permit may occur five (5) business days after the date on which the NOI is received by the Department.

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6 For the purposes of this permit, the term "operator" means the person, persons, or legal entity which owns or leases the property on which the construction activity is occurring. Also, see Part V., subsection H. on page 19 of this permit.

b. For activities which do not comply with the preceding subsection (i.e. Part I.D.3.a.), authorization to discharge under this permit will begin no sooner than sixty (60) business days from the receipt of the completed NOI unless notified differently by the Department pursuant to Part V, subsection K of this permit (see page 21). For activities not satisfying Part I.D.3.a.(1) above, or for construction site runoff subject to a TMDL (see Figure 1 on page vi), the SWPPP must be prepared by a licensed/certified professional[7] and include a certification stating that the SWPPP has been developed in a manner which will assure compliance with water quality standards (see Part I.A.) and with the substantive intent of this permit.

c. For construction activities which are subject to a sixty-day period provision identified in the preceding subparagraph b., the SWPPP shall include each of the components identified in Part III.A.1.b. (see page 8).

4. At its sole discretion, the Department may deny or terminate coverage under this permit and require coverage under another SPDES permit at any time based on a review of the NOI, the SWPPP or other relevant information (see Part V, subsection K of this permit on page 21).

5. A copy of the NOI and a brief description of the project shall be posted at the construction site in a prominent place for public viewing.

6. A signed copy of the NOI, the SWPPP, and any reports required by this permit shall also be submitted concurrently to the local governing body and any other authorized agency[8] having jurisdiction or regulatory control over the construction project.

7. New stormwater discharges from construction activities that require any other Uniform Procedures Act permit (Environmental Conservation Law, 6 NYCRR Part 621) cannot be covered under this general permit until the other required permits are obtained. Upon satisfaction of the State Environmental Quality Review Act ("SEQRA") for the proposed action and issuance of necessary permits, the applicant may submit an NOI to obtain coverage under this general

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7 A "licensed/certified professional" means a person currently licensed to practice engineering in New York State or is a Certified Professional in Erosion and Sediment Control (CPESC).

8 For the purposes of this general permit, "any other authorized agency" shall include any local, regional, or state entity or agency except the Department which has authority to review stormwater discharge from the project, including authority under any approved watershed protection plan or regulations.

permit.[9] In order to facilitate the Department's review of a multi-permitted project, an applicant should submit, at a minimum, a copy of the SWPPP which contains the information specified in Appendix B (see page 24). This information will assist the Department in determining whether or not coverage under this general permit or another SPDES permit is the more appropriate option. The Department may also require the submission of additional information in order to determine the SWPPP's conformance with the Department's technical standards.

8. Upon renewal of this general permit or issuance of a new general permit, the permittee is required to notify the Department of its intent to be covered by the new general permit. Coverage will continue under this permit for its term unless action is taken to terminate permit coverage as provided elsewhere in this permit. See also Part V. subsection B. on page 18 of this permit.

9. In the event of a transfer of ownership or responsibility for stormwater runoff, there can be no "automatic" transfer of permit coverage from one permittee to the next without appropriate notification from the dischargers. The former permittee must submit an NOT and notify the new discharger of the possible need for the new discharger to submit a new NOI (see Section E, subparagraph 2 below).

E. **Deadlines for Notification**

1. Operators who intend to obtain coverage under this general permit for stormwater runoff from construction activities must submit an NOI in accordance with the requirements of this Part at least five (5), or sixty (60) business days, as appropriately determined from Part I, Section D.3 (see page 4) prior to the commencement of construction[10] activities.

2. For stormwater runoff from construction activities where the operator changes, a new NOI must be submitted by the new operator in accordance with the requirements of this permit. The former operator must submit a NOT in accordance with Part II (see page 7) of this permit and notify the new operator of the requirement to submit a new NOI to obtain coverage under this permit. The new operator must also review and sign the SWPPP in accordance with Part III.B.(see page 9) and continue implementation of the SWPPP as required by this

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9 The purposes of this subsection is to assure that the requirements of SEQRA are fulfilled, if necessary, before any discharge authorization under this general permit is granted.

10 "Commencement of Construction" means the initial disturbance of soils associated with clearing, grading, or excavating activities, or other construction activities.

permit.

## Part II. TERMINATION OF COVERAGE[11]

Where a site has been finally stabilized, the operator must submit a NOT form prescribed by the Department for use with this general permit. The NOT shall be signed in accordance with Part V. H.(see page 19) of this permit and submitted to the address indicated on the approved NOT form.

The permittee must identify all permanent stormwater management structures that have been constructed and provide the owner(s) of such structures with a manual describing the operation and maintenance practices that will be necessary in order for the structure to function as designed after the site has been stabilized. The permittee must also certify that the permanent structure(s) have been constructed as described in the SWPPP.

## Part III. STORMWATER POLLUTION PREVENTION PLANS ("SWPPP"s)

### A. General

#### 1. SWPPP Preparation

a. A SWPPP shall be developed by the operator for construction activities at each site to be covered by this permit, prior to the initiation of activities requiring coverage under this permit. SWPPPs shall be prepared in accordance with sound engineering practices. The SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater discharges. In addition, the SWPPP shall describe and ensure the implementation of practices which will be used to reduce the pollutants in stormwater discharges and to assure compliance with the terms and conditions of this permit. Operators are encouraged to have their SWPPP reviewed for adequacy and completeness by the local soil and water conservation district ("SWCD") and/or other professionals qualified in erosion and sediment control practices[12] and stormwater management. Moreover, if the construction activity is identified under Part I, subsection D.3.b. (See page 5), or for construction site runoff subject to a TMDL (see Figure 1 on page vi), the SWPPP must include a certification by a licensed/certified professional.

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11 Submittal of an NOT will terminate coverage under this general permit and will also remove the permittee from subsequent billings of the annual regulatory fee levied under Article 72 of the ECL.

12 For example, CPESC, Inc. administers a certified program of individuals under its CPESC (Certified Professional in Erosion and Sediment Control) program which is sponsored by the International Erosion Control Association (IECA) and the Soil and Water Conservation Society (SWCS) and is endorsed by USDA - Natural Resources Conservation Service. CPESC, Inc. also administers the CPSWQ (Certified Professional in Stormwater Quality) program.

b. All SWPPPs shall include erosion and sediment controls. For construction activities meeting either Condition "A", "B" or "C" described below, the SWPPP shall also include water quantity and water quality controls (post-construction stormwater control practices).(see Part III. D.).

(1) Condition A - Construction site or post construction runoff discharging a pollutant of concern to either an impaired water identified on DEC's 303(d) list or a TMDL watershed for which pollutants in stormwater have been identified as a source of the impairment.

(2) Condition B - Construction site runoff from Phase 1 construction activities (construction activities disturbing five (5) or more acres) identified under 40 CFR Part 122, §122.26(b)(14)(x).

(3) Condition C - Construction site runoff from construction activity disturbing between one (1) and five (5) acres of land during the course of the project, exclusive of the construction of single family residences and construction activities at agricultural properties.

2. **SWPPP Implementation** - Operators are responsible for implementing the provisions of the SWPPP and ensuring that all contractors and subcontractors who perform professional services at the site provide certification of the SWPPP in accordance with Part I.D.2. (see page 4) and Part III.E.2. (see page 17) of this permit. All contractors and subcontractors identified in the SWPPP in accordance with Part III.E.1. (see page 17) of this permit must agree to implement applicable provisions of the SWPPP and satisfy the certification requirement of Part III.E.2. (see page17). However, contractors and subcontractors who are not operators, as defined in this permit (see page 4), are not required to submit a NOI in addition to the NOI submitted by the operator.

3. **Deadlines for SWPPP Preparation and Compliance** - The SWPPP must be developed prior to the submittal of an NOI and provide for compliance with the terms and schedule of the SWPPP beginning with the initiation of construction activities. The operator shall also certify in the SWPPP that all appropriate stormwater control measures will be in place before commencement of construction of any segment of the project that requires such measures.

4. **Local Requirements** - Developing a SWPPP that complies with the requirements listed herein does not relieve an operator from the obligation of complying with stormwater management requirements of the local government having jurisdiction over the project.

5. **Activities Previously Covered Under GP-93-06** - For construction activities which are covered by GP-93-06 as of the effective date of this permit (GP-02-01), the continued implementation of their SWPPP that was developed and implemented in accordance with GP-93-06 is acceptable until such time as:

(a) an NOT is submitted;

(b) the Department notifies them otherwise in accordance with this permit, including Part V, subsection K (see page 21); or

(c) this permit expires.

B. **Signature and SWPPP Review**

1. The SWPPP shall be signed in accordance with Part V. H.(see page 19), and be retained at the site where the construction activity occurs in accordance with Part IV (see retention of records on page 17) of this permit.

2. The permittee shall submit a copy of the SWPPP and any amendments thereto to the local governing body and any other authorized agency having jurisdiction or regulatory control over the construction activity. The operator shall make SWPPPs available upon request to the Department and any local agency having jurisdiction; or in the case of a stormwater discharge associated with industrial activity which discharges through a municipal separate storm sewer system, to the municipal operator of the system.

3. The Department, or its authorized representative, may notify the permittee at any time that the SWPPP does not meet one or more of the minimum requirements of this permit. Such notification shall identify those provisions of the permit which are not being met by the SWPPP and identify which provisions of the SWPPP require modifications in order to meet the minimum requirements of this permit. Within seven (7) days of such notification, (or as otherwise provided by the Department) the permittee shall make the required changes to the SWPPP and shall submit to the Department a written certification that the requested changes have been made. Notwithstanding the foregoing, the Department reserves all rights to enforce the terms of the ECL.

C. **Keeping SWPPPs Current** - The permittee shall amend the SWPPP whenever:

1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or

2. The SWPPP proves to be ineffective in:

   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP required by this permit, or

   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity.

3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP (see Part III.E, page 17 below). Amendments to the SWPPP may be reviewed by the Department in the same manner as provided by Part III.B (see page 9 above).

D. **General Contents of SWPPPs** -

1. **Standards for construction activities covered under this permit** - The Department's technical standards for erosion and sediment controls are detailed in the "*New York Standards and Specifications for Erosion and Sediment Control*"[13] published by the Empire State Chapter of the Soil and Water Conservation Society. For the design of water quality and water quantity controls (post-construction stormwater control practices), the Department's technical standards are detailed in the "*New York State Stormwater Management Design Manual.*"

If an operator certifies that the SWPPP has been developed in conformance with the Department's technical standards referenced above, they may obtain coverage under this general permit in five (5) business days from the Department's receipt of the NOI, provided the construction activity does not meet Condition A in Part III.A.1.b. For SWPPPs which will not conform with the Department's technical standards, the SWPPP must be prepared by a licensed/certified professional and include a certification stating that the SWPPP has been developed in a manner which will assure compliance with the State's water quality standards and with the substantive intent of this permit. In addition, coverage under this general permit will not begin until sixty (60) business days from the receipt of a completed NOI.

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13 Previously, the "*New York Guidelines for Urban Erosion and Sediment Control*," also commonly referred to as the "Blue Book."

2. **Minimum SWPPP Components** SWPPPs prepared pursuant to this general permit shall present fully designed and engineered stormwater management practices with all necessary maps, plans and construction drawings. The SWPPP must, at a minimum, include the following:

a. For all construction activities subject to this general permit -

(1). provide background information about the scope of the project, including the location, type and size of project.

(2) provide a site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map should show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s), wetlands and drainage patterns that could be affected by the construction activity; existing and final slopes; locations of off-site material, waste, borrow or equipment storage areas; and location(s) of the stormwater discharge(s);

(3) provide a description of the soil(s) present at the site;

(4) provide a construction phasing plan describing the intended sequence of construction activities, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other activity at the site that results in soil disturbance. Consistent with the New York Guidelines for Urban Erosion and Sediment Control, there shall not be more than five (5) acres of disturbed soil at any one time without prior written approval from the Department;

(5) provide a description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a pollutant source in the storm water discharges;

(6) provide a description of construction and waste materials expected to be stored on-site with updates as appropriate, and a description of controls to reduce pollutants from these materials including storage practices to minimize exposure of the materials to storm water, and spill prevention and response;

(7) describe the temporary and permanent structural and vegetative measures to be used for soil stabilization, runoff control and sediment control for each stage of the project from initial land

clearing and grubbing to project close-out;

(8) identify and show on a site map/construction drawing(s) the specific location(s), size(s), and length(s) of each erosion and sediment control practice;

(9) provide the dimensions, material specifications and installation details for all erosion and sediment control practices, including the siting and sizing of any temporary sediment basins;

(10) identify temporary practices that will be converted to permanent control measures;

(11) provide an implementation schedule for staging temporary erosion and sediment control practices, including the timing of initial placement and the duration that each practice should remain in place;

(12) provide a maintenance schedule to ensure continuous and effective operation of the erosion and sediment control practices;

(13) provide the names(s) of the receiving water(s);

(14) provide a delineation of SWPPP implementation responsibilities for each part of the site;

(15) provide a description of structural practices to divert flows from exposed soils, store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site to the degree attainable; and

(16) provide any existing data that describes the stormwater runoff characteristics at the site.

b. For construction activities meeting Condition A, B or C in Part III.A.1.b.

(1) provide all the information required in Parts III.D.2.a.1 - 16 above;

(2) provide a description of each post-construction stormwater control practice;

(3) identify and show on a site map/construction drawing(s) the specific location(s) and size(s) of each post-construction stormwater control practice;

(4) provide a hydrologic and hydraulic analysis for all structural components of the stormwater control system for the applicable design storms;

(5) provide a comparison of post-development stormwater runoff conditions with pre-development conditions;

(6) provide the dimensions, material specifications and installation details for each post-construction stormwater control practice;

(7) provide a maintenance schedule to ensure continuous and effective operation of each post-construction stormwater control practice.

**The following three subsections, Part III.D. 3. through Part III.D. 5., apply only to construction activities covered under this general permit which meet Conditions "A" , "B"[14] or "C" in Part III. A.1.b.** Beginning with Part III.E. below (see page 17) the requirements set forth therein apply to all permittees covered under this permit.

3. **Site Assessment and Inspections** -

a. The operator shall have a qualified professional[15] conduct an assessment of the site prior to the commencement of construction and certify in an inspection report that the appropriate erosion and sediment controls described in the SWPPP and required by Part III.D. (see page 10) of this permit have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction. Following the commencement of construction, site inspections shall be conducted by the qualified professional at least every 7 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater. During each inspection, the qualified professional shall record the following information:

(1) On a site map, indicate the extent of all disturbed site areas and drainage pathways. Indicate site areas that are expected to undergo initial disturbance or significant site work within the next 14-day period;

(2) Indicate on a site map all areas of the site that have undergone temporary or permanent stabilization;

(3) Indicate all disturbed site areas that have not undergone active site work during the previous 14-day period;

(4) Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of the sediment storage volume (for example, 10 percent, 20 percent, 50 percent);

(5) Inspect all erosion and sediment control practices and record all maintenance requirements such as verifying the integrity of barrier or diversion systems (earthen berms or silt fencing) and

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14 Condition "B" includes construction activities covered under GP-93-06 and, therefore, are subject to Part III.D.3 through Part III.D. 5.

15 "Qualified professional" means a person knowledgeable in the principles and practice of erosion and sediment controls, such as a licensed professional engineer, Certified Professional in Erosion and Sediment Control (CPESC), or soil scientist.

containment systems (sediment basins and sediment traps). Identify any evidence of rill or gully erosion occurring on slopes and any loss of stabilizing vegetation or seeding/mulching. Document any excessive deposition of sediment or ponding water along barrier or diversion systems. Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated riser pipes to pass water;
and

(6) All deficiencies that are identified with the implementation of the SWPPP.

b. The operator shall maintain a record of all inspection reports in a site log book. The site log book shall be maintained on site and be made available to the permitting authority upon request. Prior to the commencement of construction,[16] the operator shall certify in the site log book that the SWPPP, prepared in accordance with Part III.D. (see page 10) of this permit, meets all Federal, State and local erosion and sediment control requirements.

The operator shall post at the site, in a publicly-accessible location, a summary of the site inspection activities on a monthly basis.

c. Prior to filing of the Notice of Termination or the end of permit term, the operator shall have the qualified professional perform a final site inspection. The qualified professional shall certify that the site has undergone final stabilization[17] using either vegetative or structural stabilization methods and that all temporary erosion and sediment controls (such as silt fencing) not needed for long-term erosion control have been removed.

d. The operator shall certify that the requirements of Parts III.D.3., III.D.4. and III.D.5 of this permit have been satisfied within 48 hours of actually meeting such requirements.

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16 "Commencement of construction" means the initial removal of vegetation and disturbance of soils associated with clearing, grading or excavating activities or other construction activities.

17 "Final stabilization" means that all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of eighty (80) percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

4. **Stabilization**[18] - The operator shall initiate stabilization measures as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. This requirement does not apply in the following instances:

a. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions, stabilization measures shall be initiated as soon as practicable;

b. Where construction activity on a portion of the site is temporarily ceased, and earth-disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures need not be initiated on that portion of the site.

5. **Maintenance** - Sediment shall be removed from sediment traps or sediment ponds whenever their capacity has been reduced by fifty (50) percent from the design capacity.

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18 "Stabilization" means covering or maintaining an existing cover over soil. Cover can be vegetative (e.g. grass, trees, seed and mulch, shrubs, or turf) or non-vegetative (e.g. geotextiles, riprap, or gabions).

E. **Contractors**

1. The SWPPP must clearly identify for each measure identified in the SWPPP, the contractor(s) and subcontractor(s) that will implement the measure. All contractors and subcontractors identified in the SWPPP must sign a copy of the certification statement in Part III.E.2 (see below) of this permit in accordance with Part V.H.(see page 19) of this permit. All certifications must be included in the SWPPP. Additionally, new contractors and subcontractors (see subsection C.3. above) need to similarly certify.

2. **Certification Statement** - All contractors and subcontractors identified in a SWPPP in accordance with Part III.E.1 (see above) of this permit shall sign a copy of the following certification statement before undertaking any construction activity at the site identified in the SWPPP:

> "I certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP for the construction site identified in such SWPPP as a condition of authorization to discharge stormwater. I also understand that the operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards."

The certification must include the name and title of the person providing the signature in accordance with Part V.H.(see page 19) of this permit; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification is made.

## Part IV. MONITORING, REPORTING AND RETENTION OF RECORDS

A. The Department may, at its sole discretion, require monitoring of discharge(s) from the permitted construction activity after notifying the permittee in writing of the basis for such monitoring, the parameters and frequency at which monitoring shall occur and the associated reporting requirements, if any.

B. The operator shall retain copies of SWPPPs and any reports submitted in conjunction with this permit, and records of all data used to complete the NOI to be covered by this permit, for a period of at least three years from the date that the site is finally stabilized. This period may be extended by the Department, in its sole discretion, at any time upon written notification.

C. The operator shall retain a copy of the SWPPP required by this permit at the construction site from the date of initiation of construction activities to the date of final

stabilization.

D. The operator shall also prepare a written summary of its status with respect to compliance with this general permit at a minimum frequency of every three months during which coverage under this permit exists. The summary should address the status of achieving each component of the SWPPP . This summary shall be handled in the same manner as prescribed for SWPPPs under Part III, subsection B (see Page 9).

E. **Addresses** - Except for the submittal of NOIs and NOTs, all written correspondence under this permit directed to the Department, including the submittal of individual permit applications, shall be sent to the address of the appropriate Department Office as listed in Appendix A (see page 23).

## Part V. STANDARD PERMIT CONDITIONS

A. **Duty to Comply** - The operator must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any permit noncompliance constitutes a violation of the Clean Water Act (CWA) and the ECL and is grounds for an enforcement action against either the operator or the contractor/subcontractor; permit revocation or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all construction activity at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the operator or the operator's on-site representative.

B. **Continuation of the Expired General Permit** - This permit expires five (5) years after issuance on January 8, 2008. However, coverage may be obtained under the expired general permit which will continue in force and effect until a new general permit is issued. After issuance of a new general permit, those with coverage under GP-02-01 will have six (6) months from the effective date of the new general permit to complete their project or obtain coverage under the new permit. Unless otherwise notified by the Department in writing, operators seeking authorization under a new general permit must submit a new NOI in accordance with the terms of such new general permit. See also Part I, subsection D.8. on page 6.

C. **Penalties for Violations of Permit Conditions** - There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to $25,000 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.

D. **Need to halt or reduce activity not a defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the construction activity in order to maintain compliance with the conditions of this permit.

E. **Duty to Mitigate** - The permittee and its contractors and subcontractors shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

F. **Duty to Provide Information** - The permittee shall furnish any information requested by any agency with regulatory or review authority over this project for the purpose of determining compliance with this permit or compliance with any other regulatory requirements placed on the project in conjunction with this permit. Failure to provide requested information shall be a violation of this permit. Such regulating agencies include but are not limited to the Department, SWCDs,[19] local planning, zoning, health, and building departments that review and approve erosion and sediment control plans, grading plans, and Stormwater Management Plans, as well as MS4s into whose system runoff from the permitted project or activity discharges. The SWPPP and inspection reports required by this general permit are public documents that the operator must make available for inspection, review and copying by any person within five (5) business days of the operator receiving a written request by any such person to review the SWPPP and/or the inspection reports. Copying of documents will be done at the requester's expense.

G. **Other Information** - When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the NOI or in any other report to the Department, he or she shall promptly submit such facts or information.

H. **Signatory Requirements** - All NOIs, NOTs, SWPPPs, reports, certifications or information required by this permit or submitted pursuant to this permit, shall be signed as follows:

1. All NOIs and NOTs shall be signed as follows:

   a. For a corporation: by (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person authorized to and who performs similar policy or decision-making functions for the corporation; or (2) the manager of one or more manufacturing, production or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25,000,000 (in second-quarter 1980 dollars) if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

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19 "SWCD" means Soil and Water Conservation District

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (1) the chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

2. The SWPPP and all reports required by the permit and other information requested by the Department or local agency shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described above and submitted to the Department.

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).

c. **Certification** - Except for NOIs and NOTs, any person signing documents in accordance with this Part shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that false statements made herein are punishable as a class A misdemeanor pursuant to Section 210.45 of the Penal Law."

I. **Property Rights** - The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

J. **Severability** - The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

K. **Denial of Coverage Under This Permit**

1. At its sole discretion, the Department may require any person authorized by this permit to apply for and/or obtain either an individual SPDES permit or an alternative SPDES general permit. Where the Department requires a discharger authorized to discharge under this permit to apply for an individual SPDES permit, the Department shall notify the discharger in writing that a permit application is required. This notification shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the discharger to file the application, and a statement that on the effective date of issuance or denial of the individual SPDES permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit shall automatically terminate. Applications shall be submitted to the appropriate Department Office indicated in Appendix A of this permit. The Department may grant additional time to submit the application upon request of the applicant. If a discharger fails to submit in a timely manner an individual SPDES permit application as required by the Department under this paragraph, then the applicability of this permit to the individual SPDES permittee is automatically terminated at the end of the day specified by the Department for application submittal.

2. Any discharger authorized by this permit may request to be excluded from the coverage under this permit by applying for an individual permit. In such cases, the permittee shall submit an individual application in accordance with the requirements of 40 CFR 122.26(c)(1)(ii) and 6 NYCRR Part 621, with reasons supporting the request, to the Department at the address for the appropriate Department Office (see addresses in Appendix A on page 23 of this permit). The request may be granted by issuance of an individual permit or an alternative general permit at the discretion of the Department.

3. When an individual SPDES permit is issued to a discharger covered by this permit, or the discharger is authorized to discharge under an alternative SPDES general permit, the applicability of this permit to the individual SPDES permittee is automatically terminated on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit, whichever the case may be. When an individual SPDES permit is denied to an operator otherwise subject to this permit, or the operator is denied for coverage under an alternative SPDES general permit, the applicability of this permit to the individual SPDES permittee is automatically terminated on the date of such denial, unless otherwise specified by the Department.

L. **Proper Operation and Maintenance** - The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of SWPPPs. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of the permit.

M. **Inspection and Entry** - The permittee shall allow the Department or an authorized representative of EPA, the State, or, in the case of a construction site which discharges through an MS4, an authorized representative of the MS4 receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;

2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment).

N. **Permit Actions** - At the Department's sole discretion, this permit may, at any time, be modified, revoked, or renewed. The filing of a request by the permittee for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not stay compliance with any terms of this permit.

## APPENDIX A

### List of NYS DEC Regional Offices

| Region | Covering the following counties: | DIVISION OF ENVIRONMENTAL PERMITS (DEP) Permit Administrators | DIVISION OF WATER (DOW) Water (SPDES) Program |
|---|---|---|---|
| 1 | Nassau and Suffolk | Bldg 40 - SUNY @ Stony Brook<br>Stony Brook, NY 11790-2356<br>Tel. (631) 444-0365 | Bldg 40 - SUNY @ Stony Brook<br>Stony Brook, NY 11790-2356<br>Tel. (631) 444-0405 |
| 2 | Bronx, Kings, New York, Queens and Richmond | 1 Hunters Point Plaza,<br>47-40 21st St.<br>Long Island City, NY 11101-5407<br>Tel. (718) 482-4997 | 1 Hunters Point Plaza,<br>47-40 21st St.<br>Long Island City, NY 11101-5407<br>Tel. (718) 482-4933 |
| 3 | Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester | 21 South Putt Corners Road<br>New Paltz, NY 12561-1696<br>Tel. (845) 256-3059 | 200 White Plains Road, 5th Floor<br>Tarrytown, NY 10591-5805<br>Tel. (845) 332-1835 |
| 4 | Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady and Schoharie | 1150 North Westcott Road<br>Schenectady, NY 12306-2014<br>Tel. (518) 357-2069 | 1150 North Westcott Road<br>Schenectady, NY 12306-2014<br>Tel. (518) 357-2045 |
| 5 | Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren and Washington | Route 86, PO Box 296<br>Ray Brook, NY 12977-0296<br>Tel. (518) 897-1234 | 232 Hudson Street<br>Warrensburg, NY 12885-0220<br>Tel. (518) 623-1200 |
| 6 | Herkimer, Jefferson, Lewis, Oneida and St. Lawrence | State Office Building<br>317 Washington Street<br>Watertown, NY 13601-3787<br>Tel. (315) 785-2245 | State Office Building<br>207 Genesee Street<br>Utica, NY 13501-2885<br>Tel. (315) 793-2554 |
| 7 | Broome, Cayuga, Chenango, Cortland, Madison, Onondaga, Oswego, Tioga and Tompkins | 615 Erie Blvd. West<br>Syracuse, NY 13204-2400<br>Tel. (315) 426-7438 | 615 Erie Blvd. West<br>Syracuse, NY 13204-2400<br>Tel. (315) 426-7500 |
| 8 | Chemung, Genesee, Livingston, Monroe, Ontario, Orleans, Schuyler, Seneca, Steuben, Wayne and Yates | 6274 East Avon-Lima Road<br>Avon, NY 14414-9519<br>Tel. (585) 226-2466 | 6274 East Avon-Lima Rd.<br>Avon, NY 14414-9519<br>Tel. (585) 226-2466 |
| 9 | Allegany, Cattaraugus, Chautauqua, Erie, Niagara and Wyoming | 270 Michigan Avenue<br>Buffalo, NY 14203-2999<br>Tel. (716) 851-7165 | 270 Michigan Ave.<br>Buffalo, NY 14203-2999<br>Tel. (716) 851-7070 |

## APPENDIX B

**Information Required of Construction Activities Which Are Identified Under Part I, subsection D.7. (see page 5)**

A. The location (including a map) and the nature of the construction activity;

B. The total area of the site and the area of the site that is expected to undergo excavation during the life of the permit;

C. Proposed measures, including best management practices, to control pollutants in storm water discharges during construction, including a brief description of applicable State and local erosion and sediment control requirements;

D. Proposed measures to control pollutants in storm water discharges that will occur after construction operations have been completed, including a brief description of applicable State or local erosion and sediment control requirements;

E. An estimate of the runoff coefficient of the site and the increase in impervious area after the construction addressed in the permit application is completed, the nature of the fill material and existing data describing the soil or the quality of the discharge; and

F. The name of the receiving water(s).

# APPENDIX B

# NOTICE OF INTENT

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# NOTICE OF INTENT

**New York State Department of Environmental Conservation**
**Division of Water**
**625 Broadway, 4th Floor**
**Albany, New York 12233-3505**

NYR [ ][ ][ ][ ][ ][ ] (for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-02-01

**All sections must be completed unless otherwise noted.** Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required. To properly complete this form, please refer to the Instruction Manual which can be accessed at www.dec.state.ny.us/website/dow/toolbox/instr_man.pdf

## -IMPORTANT-

## THIS FORM FOR HANDPRINT ONLY

## RETURN THIS FORM TO THE ADDRESS ABOVE

**PRINT CAPITAL LETTERS IN BLACK INK AND AVOID CONTACT WITH THE EDGE OF BOXES**
**FILL IN CIRCLES COMPLETELY AND DO NOT USE CHECKMARKS**
**OWNER/OPERATOR MUST SIGN FORM**

### Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)

Owner/Operator Contact Person Last Name (NOT CONSULTANT)

Owner/Operator Contact Person First Name

Owner/Operator Mailing Address

City

State [ ][ ] Zip [ ][ ][ ][ ][ ] - [ ][ ][ ][ ]

Phone (Owner/Operator) [ ][ ][ ] - [ ][ ][ ] - [ ][ ][ ][ ]

Fax (Owner/Operator) [ ][ ][ ] - [ ][ ][ ] - [ ][ ][ ][ ]

Email (Owner/Operator)

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## Location Information

### Project Site Information

Project/Site Name

Street Address (NOT P.O. BOX)

City/Town/Village (THAT ISSUES BUILDING PERMIT)

State: N Y

Zip: ____ - ____

County

DEC Region (if known)

Name of Nearest Cross Street

Distance to Nearest Cross Street (Feet)

Direction to Nearest Cross Street

○ North ○ South ○ East ○ West

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you must go to the NYSDEC Stormwater Interactive Map on the DEC website at:

**www.dec.state.ny.us/website/imsmaps/stormwater/viewer.htm**

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site go to the dropdown menu on the left and choose "Get Coordinates". Click on the center of your site and a small window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

**X Coordinates (Easting)**

**Y Coordinates (Northing)** 4

2. What is the nature of this construction project?

○ **New Construction**

○ **Redevelopment with increase in imperviousness**

○ **Redevelopment with no increase in imperviousness**

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## Project Site Information

3. Select the predominant land use for both pre and post development conditions.
**SELECT ONLY ONE CHOICE FOR EACH**

| Pre-Development Existing Land Use | Post-Development Future Land Use |
|---|---|
| O FOREST | O SINGLE FAMILY HOME — Number of Lots |
| O PASTURE/OPEN LAND | O SINGLE FAMILY SUBDIVISION |
| O CULTIVATED LAND | O TOWN HOME RESIDENTIAL |
| O SINGLE FAMILY HOME | O MULTIFAMILY RESIDENTIAL |
| O SINGLE FAMILY SUBDIVISION | O INSTITUTIONAL/SCHOOL |
| O TOWN HOME RESIDENTIAL | O INDUSTRIAL |
| O MULTIFAMILY RESIDENTIAL | O COMMERCIAL |
| O INSTITUTIONAL/SCHOOL | O ROAD/HIGHWAY |
| O INDUSTRIAL | O RECREATIONAL/SPORTS FIELD |
| O COMMERCIAL | O BIKE PATH/TRAIL |
| O ROAD/HIGHWAY | O LINEAR UTILITY (water, sewer, gas, etc.) |
| O RECREATIONAL/SPORTS FIELD | O PARKING LOT |
| O BIKE PATH/TRAIL | O OTHER |
| O SUBSURFACE UTILITY | OTHER |
| O PARKING LOT | |
| O OTHER | |
| OTHER | |

4. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law ? O Yes O No

5. Is this a project which does not require coverage under the General Permit (e.g. Project done under an Individual SPDES Permit, or department approved remediation)? O Yes O No

6. Is this property owned by a state authority, state agency or local government? O Yes O No

7. In accordance with the larger common plan of development or sale; enter the total project site acreage, the acreage to be disturbed and the future impervious area (acreage)within the disturbed area. Round to the nearest tenth of an acre.

| Total Site Acreage | Acreage To Be Disturbed | Existing Impervious Area Within Disturbed | Future Impervious Area Within Disturbed |
|---|---|---|---|
| . | . | . | . |

8. Will there be more than 5 acres disturbed at any given time? O Yes O No

9. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

| A | B | C | D |
|---|---|---|---|
| % | % | % | % |

10. Is this a phased project? **(if yes, The SWPPP must address all planned phases)** * ○ Yes ○ No

11. Enter the planned start and end dates of the disturbance activities

**Start Date** __/__/____ - **End Date** __/__/____

## Receiving System(s)

12. Provide the name of the nearest, natural , classified surface waterbody(ies) into which construction site runoff has the potential to discharge.

**For Questions 13 and 14 refer to the Instruction Manual for a subset of 303(d) segments and TMDL watersheds subject to Condition A of the permit. These waterbodies and watersheds have been identified for regulation within the stormwater program due to some level of impairment by nutrients, silt or sediment. The Instruction Manual can be accessed at www.dec.state.ny.us/website/dow/toolbox/instr_man.pdf**

13. Has the surface waterbody(ies) in question 12 been identified as a 303(d) segment? * ○ Yes ○ No

14. Is this project located in a TMDL Watershed? * ○ Yes ○ No

***NOTE:** If you answered Yes to either question 13 or 14, Pursuant to Part I.D.3.(b) of the permit, you must have your SWPPP prepared and certified by a licensed/certified professional and the SWPPP is subject to a 60-business day review.*

15. Does the site runoff enter a separate storm sewer system- including roadside drains, swales, ditches, culverts, etc? **(if no, skip question 16 )** ○ Yes ○ No ○ Unknown

16. What is the name of the municipality/entity that owns the separate storm sewer system?

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ Yes ○ No ○ Unknown

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## Stormwater Pollution Prevention Plan (SWPPP)

18. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book) ?

○ Yes ○ No*

19. Does this construction activity require the development of a SWPPP that includes Water Quality and Quantity Control components (Post-Construction Stormwater Management Practices) **If no, Skip question 20**

○ Yes ○ No

20. Have the Water Quality and Quantity Control components of the SWPPP been developed in comformance with the current NYS Stormwater Management Design Manual ?

○ Yes ○ No*

**NOTE: If you answered no to question 18 or 20, Pursuant to Part I.D.3.(b) of the permit, you must have your SWPPP prepared and certified by a licensed/certified professional and the SWPPP is subject to a 60-business day review. Please provide further details in the details/comment section on the last page of this form.**

21. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ○ **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

**SWPPP Preparer Information**
**(if different from Owner/Operator info)**

SWPPP Preparer

Contact Name (Last, Space, First)

Mailing Address

City

State Zip -

Phone - - Fax - -

Email

## Stormwater Pollution Prevention Plan (SWPPP)

### Erosion and Sediment Control Practices

22. Has a construction sequence schedule for the planned management practices been prepared? ○ Yes ○ No

23. Select all of the erosion and sediment control practices that will be employed on the project site.

**Temporary Structural**

- ○ Check Dams
- ○ Construction Road Stabilization
- ○ Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ○ Silt Fence
- ○ Stabilized Construction Entrance
- ○ Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ○ Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

**Biotechnical**

- ○ Brush Matting
- ○ Wattling

**Other**

**Vegetative Measures**

- ○ Brush Matting
- ○ Dune Stabilization
- ○ Grassed Waterway
- ○ Mulching
- ○ Protecting Vegetation
- ○ Recreation Area Improvement
- ○ Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ○ Topsoiling
- ○ Vegetating Waterways

**Permanent Structural**

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ○ Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ○ Rock Outlet Protection
- ○ Streambank Protection

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## Stormwater Pollution Prevention Plan (SWPPP)

**Water Quality and Quantity Control**

**Important: Completion of Questions 24-30 is not required if the project:**

Disturbs less than 5 acres and is planned for single-family residential homes(including subdivisions) or construction on agricultural property and does not have a discharge to a 303(d) water or is not located within a TMDL watershed.

Additionally, sites where there will be no future impervious area within the disturbed area and that do not have a change(pre to post development)in hydrology do not need to complete questions 24-30.

24. Indicate all the permanent Stormwater Management Practice(s) that will be installed on this site

**Post Construction Stormwater Management Practices**

Ponds

- ○ Micropool Extended Detention (P-1)
- ○ Wet Pond (P-2)
- ○ Wet Extended Detention (P-3)
- ○ Multiple Pond System (P-4)
- ○ Pocket Pond (P-5)

Filtering

- ○ Surface Sand Filter (F-1)
- ○ Underground Sand Filter (F-2)
- ○ Perimeter Sand Filter (F-3)
- ○ Organic Filter (F-4)
- ○ Bioretention (F-5)
- ○ Other

Wetlands

- ○ Shallow Wetland (W-1)
- ○ Extended Detention Wetland (W-2)
- ○ Pond/Wetland System (W-3)
- ○ Pocket Wetland (W-4)

Infiltration

- ○ Infiltration Trench (I-1)
- ○ Infiltration Basin (I-2)
- ○ Dry Well (I-3)

Open Channels

- ○ Dry Swale (O-1)
- ○ Wet Swale (O-2)

Describe other stormwater management practices not listed above or explain any deviations from the technicial standards. If the SWPPP does not conform to the technicial standards, the SWPPP must be prepared and certified by a licensed/certified professional and is subject to a 60-business day review.

Has a long term Operation and Maintenance plan for the post construction management practices been developed? ○ Yes ○ No

If Yes, Identify the entity responsible for the long term Operation and Maintenance

## Stormwater Pollution Prevention Plan (SWPPP)
## Water Quality and Quantity Control

25. Provide the total water quality volume required and the total provided for the site.

**Total Water Quality Volume (WQv)**

**WQv Required** ☐☐☐.☐☐☐ **acre-feet**

**WQv Provided** ☐☐☐.☐☐☐ **acre-feet**

26. Provide the following Unified Stormwater Sizing Criteria for the site.

**Total Channel Protection Storage Volume (CPv)** - Extended detention of post-developed 1 year, 24 hour storm event

**CPv Required** ☐☐☐.☐☐☐ **acre-feet**

**CPv Provided** ☐☐☐.☐☐☐ **acre-feet**

The need to provide for channel protection has been waived because
- ○ **Site discharges directly to fourth order stream or larger**

**Total Overbank Flood Control Criteria (Qp)** - Peak discharge rate for the 10 year storm

**Pre-Development** ☐☐☐.☐☐☐ **CFS**

**Post-development** ☐☐☐.☐☐☐ **CFS**

**Total Extreme Flood Control Criteria (Qf)** - Peak discharge rate for the 100 year storm

**Pre-Development** ☐☐☐.☐☐☐ **CFS**

**Post-development** ☐☐☐.☐☐☐ **CFS**

The need to provide for flood control has been waived because
- ○ **Site discharges directly to fourth order stream or larger**
- ○ **Downstream analysis reveals that flood control is not required**

**IMPORTANT: For questions 27 and 28 impervious area should be calculated considering the project site and all offsite areas that drain to the post-construction stormwater management practice(s) (Total Drainage Area = Project Site + Offsite areas)**

27. Pre-Construction Impervious Area - As a percent of the Total Drainage Area enter the percentage of the existing impervious areas before construction begins. ☐☐☐ %

28. Post-Construction Impervious Area - As a percent of the Total Drainage Area enter the percentage of the future impervious areas that will be created/remain on the site after completion of construction. ☐☐☐ %

29. Indicate the total number of permanent stormwater management practices to be installed ☐☐

30. Provide the total number of stormwater discharge points from the site (include discharges to either surface waters or to seperate storm sewer systems) ☐☐

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## Other Permits

31. Select any other DEC permits that are required for this project or ○ None

**DEC Permits**

| | |
|---|---|
| ○ Air Pollution Control | ○ Stream Protection/Article 15 |
| ○ Coastal Erosion | ○ Water Quality Certificate |
| ○ Hazardous Waste | ○ Dam Safety |
| ○ Long Island Wells | ○ Water Supply |
| ○ Mined Land Reclamation | ○ Freshwater Wetlands |
| ○ Other SPDES | ○ Tidal Wetlands |
| ○ Solid Waste | ○ Wild, Scenic and Recreational Rivers |

Other

32. If this NOI is being submitted for the purpose of continuing coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned.

N Y R

## Details/Comments

## Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I also certify under penalty of law that this document and the corresponding documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction. and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name

MI

Print Last Name

Owner/Operator Signature

Date

/ /

# APPENDIX C

# OPERATOR'S AND CONTRACTOR'S CERTIFICATION FORMS

# Contractor's Certification

## New Steel Fabricating Facility

## For

## PIARIA, Inc.

The Contractor and/or Subcontractor(s) that will implement the erosion control measures described in the SWPPP must be identified below. Each must sign a statement certifying that they understand the NYSDEC general permit authorizing storm water discharges during construction. These statements must be maintained in the SWPPP file on site.

**Contractor Implementing the Storm Water Pollution Prevention Plan:**

Business Name: _____

Business Address: _____

Telephone No.: _____

Name: _____

Title: _____

Signature: _____

Date: _____

**Certification:**

"I certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP for the construction site identified in such SWPPP as a condition of authorization to discharge Stormwater. I also understand that the Operator must comply with the terms and conditions of the New York State Pollution Discharge Elimination System ("SPDES") general permit for Stormwater discharges from construction discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards."

Signatory Requirements - All NOIs, NOTs, SWPPPS, reports, certifications or information required by this permit or submitted pursuant to this permit, shall be signed as follows:

1 For a corporation: by a (1) president, secretary, treasurer, or vice-president of the corporation in charge of a principle business function, or any other person authorized to and who performs similar policy or decision-making functions for the corporation; or (2) the manager of one or more manufacturing, production or operating facilities employing more than 250 persons or having a gross annual sales or expenditures exceeding $25,000,000 (in second-quarter 1980 dollars) if authority to sign documents has been assigned or delegated to manage in accordance with corporate procedures;

2 For a partnership or sole proprietorship: by a general partner or the proprietor, respectively.

# Owner's Certification

## New Steel Fabricating Facility

## For

## PIARIA, Inc.

The Operator that will implement the erosion control measures described in the SWPPP must be identified below. Each must sign a statement certifying that they understand the NYSDEC general permit authorizing stormwater discharges during construction. These statements must be maintained in the SWPPP file on site.

**Owner:**

Business Name: _____

Business Address _____

Telephone No.: _____

Name: _____

Title: _____

Signature: _____

Date: _____

**Certification:**

> "I certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP for the construction site identified in such SWPPP as a condition of authorization to discharge Stormwater. I also understand that the Operator must comply with the terms and conditions of the New York State Pollution Discharge Elimination System ("SPDES") general permit for Stormwater discharges from construction discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards."

Signatory Requirements - All NOIs, NOTs, SWPPPS, reports, certifications or information required by this permit or submitted pursuant to this permit, shall be signed as follows:

1 For a corporation: by a (1) president, secretary, treasurer, or vice-president of the corporation in charge of a principle business function, or any other person authorized to and who performs similar policy or decision-making functions for the corporation; or (2) the manager of one or more manufacturing, production or operating facilities employing more than 250 persons or having a gross annual sales or expenditures exceeding $25,000,000 (in second-quarter 1980 dollars) if authority to sign documents has been assigned or delegated to manage in accordance with corporate procedures;

2 For a partnership or sole proprietorship: by a general partner or the proprietor, respectively.

# APPENDIX D

# INSPECTION REPORT

# Inspection Report

## New Steel Fabricating Facility

## For

## PIARIA, Inc.

| Inspection Type (Circle One): | Routine Weekly | Following 1/2" or Greater Rainfall |
|---|---|---|

Inspectors Name (Please Print): _____

Date: _____ Time: _____

**Construction Activities Since Last Inspection:**

**Temporary Erosion and Sediment Control Practices:**

| Practice | Condition | Conforming | Actions Req'd |
|---|---|---|---|
| Less Than 5 Acres Of Disturbance | Good / Fair / Poor / NA | Yes / No | |
| Disturbance Within Limits | Good / Fair / Poor / NA | Yes / No | |
| Downstream Water Quality | Good / Fair / Poor / NA | Yes / No | |
| Stabilized Construction Entrance | Good / Fair / Poor / NA | Yes / No | |
| Stabilized Parking Areas | Good / Fair / Poor / NA | Yes / No | |
| Sediment On Public Streets | Good / Fair / Poor / NA | Yes / No | |
| Temporary Diversion Swales | Good / Fair / Poor / NA | Yes / No | |

SHAW ENGINEERING
744 Broadway Newburgh, New York 12550

| Practice | Condition | Conforming | Actions Req'd |
|---|---|---|---|
| Silt Fence | Good / Fair / Poor / NA | Yes / No | |
| Stone Check Dams | Good / Fair / Poor / NA | Yes / No | |
| Catch Basin Sediment Traps | Good / Fair / Poor / NA | Yes / No | |
| Sedimentation Basin | Good / Fair / Poor / NA | Yes / No | |
| Slope Protection | Good / Fair / Poor / NA | Yes / No | |
| Sediment Traps | Good / Fair / Poor / NA | Yes / No | |
| Rip-Rap Outlet Protection | Good / Fair / Poor / NA | Yes / No | |
| Level Spreader | Good / Fair / Poor / NA | Yes / No | |
| Dust Protection | Good / Fair / Poor / NA | Yes / No | |
| Stabilized Stockpiles | Good / Fair / Poor / NA | Yes / No | |
| Construction Litter / Debris | Good / Fair / Poor / NA | Yes / No | |
| Dewatering Operations | Good / Fair / Poor / NA | Yes / No | |
| Temporary Seeding & Mulching | Good / Fair / Poor / NA | Yes / No | |

**Erosion Control Measures In-Place:**

**Description Of Actions To Correct Deficiencies In Erosion Control Measures:**

**Inspection Notes:**

**Inspector's Signature:** _____

_____ _____

**(Name)** **(Date)**

**SHAW ENGINEERING**
**744 Broadway Newburgh, New York 12550**

# APPENDIX E

# RECORD OF STABILIZATION AND CONSTRUCTION ACTIVITY

**Site Stabilization & Construction Activities Dates**

**New Steel Fabricating Facility**

**For**

**PIARIA, Inc.**

Note: This form shall be completed by the Contractor and shall remain as part of the Stormwater Pollution Prevention Plan that is to remain at the project site for the duration of construction.

A record of dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be maintained until final site stabilization is achieved and the Notice of Termination is filed.

**MAJOR GRADING ACTIVITIES:**

Description of Activity: _____
Contractor: _____
Location: _____
Start Date: _____ Finish Date _____

Description of Activity: _____
Contractor: _____
Location: _____
Start Date: _____ Finish Date _____

Description of Activity: _____
Contractor: _____
Location: _____
Start Date: _____ Finish Date _____

Description of Activity: _____
Contractor: _____
Location: _____
Start Date: _____ Finish Date _____

Description of Activity: _____
Contractor: _____
Location: _____
Start Date: _____ Finish Date _____

# APPENDIX F

# NOTICE OF TERMINATION

**New York State Department of Environmental Conservation**
**Division of Water**
**625 Broadway, 4th Floor**
**Albany, New York 12233-3505**

# NOTICE OF TERMINATION for Storm Water Discharges Associated with Construction Activity UNDER SPDES GENERAL PERMIT: ☐ #GP-93-06 or ☐ #GP-02-01

**Please indicate your permit identification number:** NYR ___ ___ ___ ___ ___ ___

## I. Permittee Information

1. Owner/Operator Name:

| 2a. Mailing Address: | 2b. City/State/Zip: |
|---|---|

| 3a. Contact Person: | 3b. Phone: | 3c. E-mail: |
|---|---|---|

## II. Site /Activity Information

4. Facility/Project Site Name:

| 5a. Street Address: | 5b. City/State/Zip: |
|---|---|

6. County:

## III. Reason for Termination

7a. ☐ Site has been finally stabilized in accordance with permit and SWPPP. Date site stabilization completed: _____ month/year

7b. ☐ Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR _ _ _ _ _ _
(Note: Permit coverage can not be terminated by permittee identified in I.1. above until new owner/operator obtains coverage under GP-02-01)

## IV. Final Site Information:

8a. Are there permanent stormwater management practices remaining on the site? ☐ yes ☐ no
If the answer to question 8a. is no, go to question 8e.
If the answer to question 8a. is yes, answer the following questions 8b., 8c., and 8d.:
8b. Is the design and function of each permanent practice described in the final SWPPP? ☐ yes ☐ no
8c. Who will be responsible for long-term operation and maintenance of practice(s)? _____
8d. Has the individual(s) responsible for long-term operation and maintenance been given a copy of the operation and maintenance requirements? ☐ yes ☐ no
8e. Provide the total acreage of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? _____

## V. Certification

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| Printed Name: | Title/Position: |
|---|---|
| Signature: | Date: |

**Reset Button**

08/16/04

# APPENDIX G

# STORM WATER MANAGEMENT CALCULATIONS

## - HYDROLOGIC AND HYDRAULIC –

# PRE-DEVELOPED CONDITIONS

**RUNOFF CURVE NUMBERS**

**TIMES OF CONCENTRATION**

**PEAK RUNOFF RATES**

**PRE-DEVELOPMENT STORM SUMMARY**

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\PIARIA_PRE.PPW

RUNOFF CURVE NUMBER DATA

| Soil/Surface Description | CN | Area acres | Impervious Adjustment %C | %UC | Adjusted CN |
|---|---|---|---|---|---|
| Woods - good | 70 | 2.440 | | | 70.00 |
| COMPOSITE AREA & WEIGHTED CN ---> | | 2.440 | | | 70.00 (70) |

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\PIARIA_PRE.PPW

RUNOFF CURVE NUMBER DATA

| Soil/Surface Description | CN | Area acres | Impervious Adjustment %C | %UC | Adjusted CN |
|---|---|---|---|---|---|
| Woods - good | 70 | .940 | | | 70.00 |
| COMPOSITE AREA & WEIGHTED CN ---> | | .940 | | | 70.00 (70) |

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\PIARIA_PRE.PPW

TIME OF CONCENTRATION CALCULATOR

Segment #1: Tc: TR-55 Sheet

| | | |
|---|---|---|
| Mannings n | .4000 | |
| Hydraulic Length | 150.00 | ft |
| 2yr, 24hr P | 3.5000 | in |
| Slope | .120000 | ft/ft |
| Avg.Velocity | .18 | ft/sec |

Segment #1 Time: .2312 hrs

Segment #2: Tc: TR-55 Shallow

| | | |
|---|---|---|
| Hydraulic Length | 304.00 | ft |
| Slope | .125000 | ft/ft |
| Unpaved | | |
| Avg.Velocity | 5.70 | ft/sec |

Segment #2 Time: .0148 hrs

Total Tc: .2460 hrs

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\PIARIA_PRE.PPW

TIME OF CONCENTRATION CALCULATOR

Segment #1: Tc: TR-55 Sheet

| | |
|---|---|
| Mannings n | .4000 |
| Hydraulic Length | 150.00 ft |
| 2yr, 24hr P | 3.5000 in |
| Slope | .120000 ft/ft |
| Avg.Velocity | .18 ft/sec |

Segment #1 Time: .2312 hrs

Segment #2: Tc: TR-55 Shallow

| | |
|---|---|
| Hydraulic Length | 325.00 ft |
| Slope | .119200 ft/ft |
| Unpaved | |
| Avg.Velocity | 5.57 ft/sec |

Segment #2 Time: .0162 hrs

Total Tc: .2474 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 1 year storm
Duration = 24.0000 hrs Rain Depth = 3.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = work_pad.hyg - SUBAREA ON-1 Pre 1
Tc = .2460 hrs
Drainage Area = 2.440 acres Runoff CN= 70

==========
Computational Time Increment = .03280 hrs
Computed Peak Time = 12.1998 hrs
Computed Peak Flow = 1.31 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 1.31 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-1
CN = 70
Area = 2.440 acres
S = 4.2857 in
0.2S = .8571 in

Cumulative Runoff
---
.7143 in
.145 ac-ft

HYG Volume... .145 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .24596 hrs (ID: SUBAREA ON-1)
Computational Incr, Tm = .03280 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 11.24 cfs
Unit peak time Tp = .16398 hrs
Unit receding limb, Tr = .65590 hrs
Total unit time, Tb = .81988 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm
Duration = 24.0000 hrs Rain Depth = 5.5000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = work_pad.hyg - SUBAREA ON-1 Pre 10
Tc = .2460 hrs
Drainage Area = 2.440 acres Runoff CN= 70

==========
Computational Time Increment = .03280 hrs
Computed Peak Time = 12.1998 hrs
Computed Peak Flow = 5.00 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 5.00 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-1
CN = 70
Area = 2.440 acres
S = 4.2857 in
0.2S = .8571 in

Cumulative Runoff
---
2.4143 in
.491 ac-ft

HYG Volume... .491 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .24596 hrs (ID: SUBAREA ON-1)
Computational Incr, Tm = .03280 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 11.24 cfs
Unit peak time Tp = .16398 hrs
Unit receding limb, Tr = .65590 hrs
Total unit time, Tb = .81988 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 6.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = work_pad.hyg - SUBAREA ON-1 Pre 25
Tc = .2460 hrs
Drainage Area = 2.440 acres Runoff CN= 70

==========
Computational Time Increment = .03280 hrs
Computed Peak Time = 12.1998 hrs
Computed Peak Flow = 5.83 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 5.83 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-1
CN = 70
Area = 2.440 acres
S = 4.2857 in
0.2S = .8571 in

Cumulative Runoff
---
2.8052 in
.570 ac-ft

HYG Volume... .570 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .24596 hrs (ID: SUBAREA ON-1)
Computational Incr, Tm = .03280 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 11.24 cfs
Unit peak time Tp = .16398 hrs
Unit receding limb, Tr = .65590 hrs
Total unit time, Tb = .81988 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 8.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = work_pad.hyg - SUBAREA ON-1 Pre100
Tc = .2460 hrs
Drainage Area = 2.440 acres Runoff CN= 70

==========
Computational Time Increment = .03280 hrs
Computed Peak Time = 12.1670 hrs
Computed Peak Flow = 9.34 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 9.30 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-1
CN = 70
Area = 2.440 acres
S = 4.2857 in
0.2S = .8571 in

Cumulative Runoff
---
4.4643 in
.908 ac-ft

HYG Volume... .908 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .24596 hrs (ID: SUBAREA ON-1)
Computational Incr, Tm = .03280 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 11.24 cfs
Unit peak time Tp = .16398 hrs
Unit receding limb, Tr = .65590 hrs
Total unit time, Tb = .81988 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 1 year storm
Duration = 24.0000 hrs Rain Depth = 3.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = work_pad.hyg - SUBAREA ON-2 Pre 1
Tc = .2474 hrs
Drainage Area = .940 acres Runoff CN= 70

==========
Computational Time Increment = .03298 hrs
Computed Peak Time = 12.2034 hrs
Computed Peak Flow = .50 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = .50 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-2
CN = 70
Area = .940 acres
S = 4.2857 in
0.2S = .8571 in

Cumulative Runoff
---
.7143 in
.056 ac-ft

HYG Volume... .056 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .24737 hrs (ID: SUBAREA ON-2)
Computational Incr, Tm = .03298 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 4.31 cfs
Unit peak time Tp = .16491 hrs
Unit receding limb, Tr = .65964 hrs
Total unit time, Tb = .82455 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm
Duration = 24.0000 hrs Rain Depth = 5.5000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = work_pad.hyg - SUBAREA ON-2 Pre 10
Tc = .2474 hrs
Drainage Area = .940 acres Runoff CN= 70

==========
Computational Time Increment = .03298 hrs
Computed Peak Time = 12.2034 hrs
Computed Peak Flow = 1.92 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 1.92 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-2
CN = 70
Area = .940 acres
S = 4.2857 in
0.2S = .8571 in

Cumulative Runoff
---
2.4143 in
.189 ac-ft

HYG Volume... .189 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .24737 hrs (ID: SUBAREA ON-2)
Computational Incr, Tm = .03298 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 4.31 cfs
Unit peak time Tp = .16491 hrs
Unit receding limb, Tr = .65964 hrs
Total unit time, Tb = .82455 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 6.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = work_pad.hyg - SUBAREA ON-2 Pre 25
Tc = .2474 hrs
Drainage Area = .940 acres Runoff CN= 70

==========
Computational Time Increment = .03298 hrs
Computed Peak Time = 12.2034 hrs
Computed Peak Flow = 2.24 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 2.24 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-2
CN = 70
Area = .940 acres
S = 4.2857 in
0.2S = .8571 in

Cumulative Runoff
---
2.9052 in
.220 ac-ft

HYG Volume... .220 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .24737 hrs (ID: SUBAREA ON-2)
Computational Incr, Tm = .03298 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 4.31 cfs
Unit peak time Tp = .16491 hrs
Unit receding limb, Tr = .65964 hrs
Total unit time, Tb = .82455 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 8.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = work_pad.hyg - SUBAREA ON-2 Pre100
Tc = .2474 hrs
Drainage Area = .940 acres Runoff CN= 70

==========
Computational Time Increment = .03298 hrs
Computed Peak Time = 12.1704 hrs
Computed Peak Flow = 3.59 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 3.57 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-2
CN = 70
Area = .940 acres
S = 4.2857 in
0.2S = .8571 in

Cumulative Runoff
---
4.4643 in
.350 ac-ft

HYG Volume... .350 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .24737 hrs (ID: SUBAREA ON-2)
Computational Incr, Tm = .03298 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 4.31 cfs
Unit peak time Tp = .16491 hrs
Unit receding limb, Tr = .65964 hrs
Total unit time, Tb = .82455 hrs

SUMMARY FOR HYDROGRAPH ADDITION
at Node: OUT ON1&2

HYG Directory: F:\Haestad Data-New\PondpackDataFiles\Piaria\

| Upstream Link ID | Upstream Node ID | HYG file | HYG ID | HYG tag |
|---|---|---|---|---|
| ADDLINK ON-1 | SUBAREA ON-1 | work_pad.hyg | SUBAREA ON-1 | Pre 1 |
| ADDLINK ON-2 | SUBAREA ON-2 | work_pad.hyg | SUBAREA ON-2 | Pre 1 |

INFLOWS TO: OUT ON1&2

| HYG file | HYG ID | HYG tag | Volume ac-ft | Peak Time hrs | Peak Flow cfs |
|---|---|---|---|---|---|
| work_pad.hyg | SUBAREA ON-1 | Pre 1 | .145 | 12.2000 | 1.31 |
| work_pad.hyg | SUBAREA ON-2 | Pre 1 | .056 | 12.2000 | .50 |

TOTAL FLOW INTO: OUT ON1&2

| HYG file | HYG ID | HYG tag | Volume ac-ft | Peak Time hrs | Peak Flow cfs |
|---|---|---|---|---|---|
| work_pad.hyg | OUT ON1&2 | Pre 1 | .201 | 12.2000 | 1.81 |

SUMMARY FOR HYDROGRAPH ADDITION
at Node: OUT ON1&2

HYG Directory: F:\Haestad Data-New\PondpackDataFiles\Piaria\

| Upstream Link ID | Upstream Node ID | HYG file | HYG ID | HYG tag |
|---|---|---|---|---|
| ADDLINK ON-1 | SUBAREA ON-1 | work_pad.hyg | SUBAREA ON-1 | Pre 10 |
| ADDLINK ON-2 | SUBAREA ON-2 | work_pad.hyg | SUBAREA ON-2 | Pre 10 |

INFLOWS TO: OUT ON1&2

| HYG file | HYG ID | HYG tag | Volume ac-ft | Peak Time hrs | Peak Flow cfs |
|---|---|---|---|---|---|
| work_pad.hyg | SUBAREA ON-1 | Pre 10 | .491 | 12.2000 | 5.00 |
| work_pad.hyg | SUBAREA ON-2 | Pre 10 | .189 | 12.2000 | 1.92 |

TOTAL FLOW INTO: OUT ON1&2

| HYG file | HYG ID | HYG tag | Volume ac-ft | Peak Time hrs | Peak Flow cfs |
|---|---|---|---|---|---|
| work_pad.hyg | OUT ON1&2 | Pre 10 | .680 | 12.2000 | 6.92 |

SUMMARY FOR HYDROGRAPH ADDITION
at Node: OUT ON1&2

HYG Directory: F:\Haestad Data-New\PondpackDataFiles\Piaria\

| Upstream Link ID | Upstream Node ID | HYG file | HYG ID | HYG tag |
|---|---|---|---|---|
| ADDLINK ON-1 | SUBAREA ON-1 | work_pad.hyg | SUBAREA ON-1 | Pre 25 |
| ADDLINK ON-2 | SUBAREA ON-2 | work_pad.hyg | SUBAREA ON-2 | Pre 25 |

INFLOWS TO: OUT ON1&2

| HYG file | HYG ID | HYG tag | Volume ac-ft | Peak Time hrs | Peak Flow cfs |
|---|---|---|---|---|---|
| work_pad.hyg | SUBAREA ON-1 | Pre 25 | .570 | 12.2000 | 5.83 |
| work_pad.hyg | SUBAREA ON-2 | Pre 25 | .220 | 12.2000 | 2.24 |

TOTAL FLOW INTO: OUT ON1&2

| HYG file | HYG ID | HYG tag | Volume ac-ft | Peak Time hrs | Peak Flow cfs |
|---|---|---|---|---|---|
| work_pad.hyg | OUT ON1&2 | Pre 25 | .790 | 12.2000 | 8.07 |

SUMMARY FOR HYDROGRAPH ADDITION
at Node: OUT ON1&2

HYG Directory: F:\Haestad Data-New\PondpackDataFiles\Piaria\

| Upstream Link ID | Upstream Node ID | HYG file | HYG ID | HYG tag |
|---|---|---|---|---|
| ADDLINK ON-1 | SUBAREA ON-1 | work_pad.hyg | SUBAREA ON-1 | Pre100 |
| ADDLINK ON-2 | SUBAREA ON-2 | work_pad.hyg | SUBAREA ON-2 | Pre100 |

INFLOWS TO: OUT ON1&2

| HYG file | HYG ID | HYG tag | Volume ac-ft | Peak Time hrs | Peak Flow cfs |
|---|---|---|---|---|---|
| work_pad.hyg | SUBAREA ON-1 | Pre100 | .908 | 12.2000 | 9.30 |
| work_pad.hyg | SUBAREA ON-2 | Pre100 | .350 | 12.2000 | 3.57 |

TOTAL FLOW INTO: OUT ON1&2

| HYG file | HYG ID | HYG tag | Volume ac-ft | Peak Time hrs | Peak Flow cfs |
|---|---|---|---|---|---|
| work_pad.hyg | OUT ON1&2 | Pre100 | 1.258 | 12.2000 | 12.87 |

# PRE-DEVELOPMENT STORM SUMMARY

## MASTER DESIGN STORM SUMMARY

Network Storm Collection: OrangeCounty

| Return Event | Total Depth in | Rainfall Type | RNF ID |
|---|---|---|---|
| Pre 1 | 3.0000 | Synthetic Curve | TypeIII 24hr |
| Pre 10 | 5.5000 | Synthetic Curve | TypeIII 24hr |
| Pre 25 | 6.0000 | Synthetic Curve | TypeIII 24hr |
| Pre100 | 8.0000 | Synthetic Curve | TypeIII 24hr |

## MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

| Node ID | Type | Return Event | HYG Vol ac-ft | Trun | Qpeak hrs | Qpeak cfs | Max WSEL ft | Max Pond Storage ac-ft |
|---|---|---|---|---|---|---|---|---|
| *OUT ON1&2 | JCT | 1 | .201 | | 12.2000 | 1.81 | | |
| *OUT ON1&2 | JCT | 10 | .680 | | 12.2000 | 6.92 | | |
| *OUT ON1&2 | JCT | 25 | .790 | | 12.2000 | 8.07 | | |
| *OUT ON1&2 | JCT | 100 | 1.258 | | 12.2000 | 12.87 | | |
| SUBAREA ON-1 | AREA | 1 | .145 | | 12.2000 | 1.31 | | |
| SUBAREA ON-1 | AREA | 10 | .491 | | 12.2000 | 5.00 | | |
| SUBAREA ON-1 | AREA | 25 | .570 | | 12.2000 | 5.83 | | |
| SUBAREA ON-1 | AREA | 100 | .908 | | 12.2000 | 9.30 | | |
| SUBAREA ON-2 | AREA | 1 | .056 | | 12.2000 | .50 | | |
| SUBAREA ON-2 | AREA | 10 | .189 | | 12.2000 | 1.92 | | |
| SUBAREA ON-2 | AREA | 25 | .220 | | 12.2000 | 2.24 | | |
| SUBAREA ON-2 | AREA | 100 | .350 | | 12.2000 | 3.57 | | |

# POST-DEVELOPED CONDITIONS

**RUNOFF CURVE NUMBERS**

**TIMES OF CONCENTRATION**

**PEAK RUNOFF RATES**

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\PIARIA_POST.PPW

RUNOFF CURVE NUMBER DATA

| Soil/Surface Description | CN | Area acres | Impervious Adjustment %C | %UC | Adjusted CN |
|---|---|---|---|---|---|
| Buildings | 98 | .790 | | | 98.00 |
| Open space (Lawns,parks etc.) - Goo | 74 | 1.400 | | | 74.00 |
| COMPOSITE AREA & WEIGHTED CN ---> | | 2.190 | | | 82.66 (83) |

laestad Data-New\PondpackDataFiles\Piaria\PIARIA_POST.PPW

NUMBER DATA

| Description | CN | Area acres | Impervious Adjustment %C | %UC | Adjusted CN |
|---|---|---|---|---|---|
| Lawns,parks etc.) - Goo | 74 | .200 | | | 74.00 |
| | 70 | .220 | | | 70.00 |
| EA & WEIGHTED CN ---> | | .420 | | | 71.90 (72) |

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\PIARIA_POST.PPW

RUNOFF CURVE NUMBER DATA

| Soil/Surface Description | CN | Area acres | Impervious Adjustment %C | %UC | Adjusted CN |
|---|---|---|---|---|---|
| Open space (Lawns,parks etc.) - Goo | 74 | .150 | | | 74.00 |
| Woods - good | 70 | .620 | | | 70.00 |
| COMPOSITE AREA & WEIGHTED CN ---> | | .770 | | | 70.78 (71) |

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\PIARIA_POST.PPW

TIME OF CONCENTRATION CALCULATOR

Segment #1: Tc: TR-55 Sheet

| | | |
|---|---|---|
| Mannings n | .2400 | |
| Hydraulic Length | 73.00 | ft |
| 2yr, 24hr P | 3.5000 | in |
| Slope | .239700 | ft/ft |
| Avg.Velocity | .31 | ft/sec |

Segment #1 Time: .0655 hrs

Segment #2: Tc: TR-55 Channel

| | | |
|---|---|---|
| Flow Area | 1.2300 | sq.ft |
| Wetted Perimeter | 3.93 | ft |
| Hydraulic Radius | .31 | ft |
| Slope | .026000 | ft/ft |
| Mannings n | .0120 | |
| Hydraulic Length | 443.00 | ft |
| Avg.Velocity | 9.23 | ft/sec |

Segment #2 Time: .0133 hrs

Total Tc: .0788 hrs

Calculated Tc < Min.Tc:
Use Minimum Tc...
Use Tc = .0833 hrs

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\PIARIA_POST.PPW

TIME OF CONCENTRATION CALCULATOR

Segment #1: Tc: TR-55 Sheet

| | | |
|---|---|---|
| Mannings n | .4000 | |
| Hydraulic Length | 100.00 | ft |
| 2yr, 24hr P | 3.5000 | in |
| Slope | .137000 | ft/ft |
| Avg.Velocity | .18 | ft/sec |

Segment #1 Time: .1585 hrs

Segment #2: Tc: TR-55 Shallow

| | | |
|---|---|---|
| Hydraulic Length | 90.00 | ft |
| Slope | .103300 | ft/ft |
| Unpaved | | |
| Avg.Velocity | 5.19 | ft/sec |

Segment #2 Time: .0048 hrs

Total Tc: .1633 hrs

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\PIARIA_POST.PPW

::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
TIME OF CONCENTRATION CALCULATOR
::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::

---

Segment #1: Tc: TR-55 Sheet

| | |
|---|---|
| Mannings n | .4000 |
| Hydraulic Length | 100.00 ft |
| 2yr, 24hr P | 3.5000 in |
| Slope | .040000 ft/ft |
| Avg.Velocity | .11 ft/sec |

Segment #1 Time: .2594 hrs

---

Segment #2: Tc: TR-55 Shallow

| | |
|---|---|
| Hydraulic Length | 290.00 ft |
| Slope | .094800 ft/ft |
| Unpaved | |
| Avg.Velocity | 4.97 ft/sec |

Segment #2 Time: .0162 hrs

---

==========
Total Tc: .2756 hrs
==========

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\
Title... Project Date: 9/22/2005
Project Engineer: Gregory J. Shaw
Project Title: Watershed
Project Comments:

DESIGN STORMS SUMMARY

Design Storm File,ID = OrangeCounty

Storm Tag Name = Dev 1
---
Data Type, File, ID = Synthetic Storm TypeIII 24hr
Storm Frequency = 1 yr
Total Rainfall Depth= 3.0000 in
Duration Multiplier = 1
Resulting Duration = 24.0000 hrs
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = Dev 10
---
Data Type, File, ID = Synthetic Storm TypeIII 24hr
Storm Frequency = 10 yr
Total Rainfall Depth= 5.5000 in
Duration Multiplier = 1
Resulting Duration = 24.0000 hrs
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = Dev 25
---
Data Type, File, ID = Synthetic Storm TypeIII 24hr
Storm Frequency = 25 yr
Total Rainfall Depth= 6.0000 in
Duration Multiplier = 1
Resulting Duration = 24.0000 hrs
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = Dev100
---
Data Type, File, ID = Synthetic Storm TypeIII 24hr
Storm Frequency = 100 yr
Total Rainfall Depth= 8.0000 in
Duration Multiplier = 1
Resulting Duration = 24.0000 hrs
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 1 year storm
Duration = 24.0000 hrs Rain Depth = 3.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = - SUBAREA ON-1A Dev 1
Tc (Min. Tc) = .0833 hrs
Drainage Area = 2.190 acres Runoff CN= 83

==========
Computational Time Increment = .01111 hrs
Computed Peak Time = 12.1063 hrs
Computed Peak Flow = 3.31 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = 3.30 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-1A
CN = 83
Area = 2.190 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff
---
1.4466 in
.264 ac-ft

HYG Volume... .264 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .08330 hrs (ID: SUBAREA ON-1A)
Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 29.79 cfs
Unit peak time Tp = .05553 hrs
Unit receding limb, Tr = .22213 hrs
Total unit time, Tb = .27767 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm
Duration = 24.0000 hrs Rain Depth = 5.5000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = - SUBAREA ON-1A Dev 10
Tc (Min. Tc) = .0833 hrs
Drainage Area = 2.190 acres Runoff CN= 83

==========
Computational Time Increment = .01111 hrs
Computed Peak Time = 12.1063 hrs
Computed Peak Flow = 8.09 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = 8.08 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-1A
CN = 83
Area = 2.190 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff
---
3.6298 in
.662 ac-ft

HYG Volume... .662 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .08330 hrs (ID: SUBAREA ON-1A)
Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 29.79 cfs
Unit peak time Tp = .05553 hrs
Unit receding limb, Tr = .22213 hrs
Total unit time, Tb = .27767 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 6.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = - SUBAREA ON-1A Dev 25
Tc (Min. Tc) = .0833 hrs
Drainage Area = 2.190 acres Runoff CN= 83

==========
Computational Time Increment = .01111 hrs
Computed Peak Time = 12.1063 hrs
Computed Peak Flow = 9.07 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = 9.06 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-1A
CN = 83
Area = 2.190 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff
---
4.0914 in
.747 ac-ft

HYG Volume... .747 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .08330 hrs (ID: SUBAREA ON-1A)
Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 29.79 cfs
Unit peak time Tp = .05553 hrs
Unit receding limb, Tr = .22213 hrs
Total unit time, Tb = .27767 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 8.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = - SUBAREA ON-1A Dev100
Tc (Min. Tc) = .0833 hrs
Drainage Area = 2.190 acres Runoff CN= 83

==========
Computational Time Increment = .01111 hrs
Computed Peak Time = 12.1063 hrs
Computed Peak Flow = 12.96 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1000 hrs
Peak Flow, Interpolated Output = 12.95 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-1A
CN = 83
Area = 2.190 acres
S = 2.0482 in
0.2S = .4096 in

Cumulative Runoff
---
5.9774 in
1.091 ac-ft

HYG Volume... 1.091 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .08330 hrs (ID: SUBAREA ON-1A)
Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 29.79 cfs
Unit peak time Tp = .05553 hrs
Unit receding limb, Tr = .22213 hrs
Total unit time, Tb = .27767 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 1 year storm
Duration = 24.0000 hrs Rain Depth = 3.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = - SUBAREA ON-1B Dev 1
Tc = .1633 hrs
Drainage Area = .420 acres Runoff CN= 72

==========
Computational Time Increment = .02178 hrs
Computed Peak Time = 12.1509 hrs
Computed Peak Flow = .30 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1500 hrs
Peak Flow, Interpolated Output = .30 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-1B
CN = 72
Area = .420 acres
S = 3.8889 in
0.2S = .7778 in

Cumulative Runoff
---
.8081 in
.028 ac-ft

HYG Volume... .028 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .16332 hrs (ID: SUBAREA ON-1B)
Computational Incr, Tm = .02178 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 2.91 cfs
Unit peak time Tp = .10888 hrs
Unit receding limb, Tr = .43552 hrs
Total unit time, Tb = .54440 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm
Duration = 24.0000 hrs Rain Depth = 5.5000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = - SUBAREA ON-1B Dev 10
Tc = .1633 hrs
Drainage Area = .420 acres Runoff CN= 72

==========
Computational Time Increment = .02178 hrs
Computed Peak Time = 12.1509 hrs
Computed Peak Flow = 1.03 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1500 hrs
Peak Flow, Interpolated Output = 1.03 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-1B
CN = 72
Area = .420 acres
S = 3.8889 in
0.2S = .7778 in

Cumulative Runoff
---
2.5896 in
.091 ac-ft

HYG Volume... .091 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .16332 hrs (ID: SUBAREA ON-1B)
Computational Incr, Tm = .02178 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 2.91 cfs
Unit peak time Tp = .10888 hrs
Unit receding limb, Tr = .43552 hrs
Total unit time, Tb = .54440 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 6.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = - SUBAREA ON-1B Dev 25
Tc = .1633 hrs
Drainage Area = .420 acres Runoff CN= 72

==========
Computational Time Increment = .02178 hrs
Computed Peak Time = 12.1292 hrs
Computed Peak Flow = 1.19 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1500 hrs
Peak Flow, Interpolated Output = 1.19 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-1B
CN = 72
Area = .420 acres
S = 3.8889 in
0.2S = .7778 in

Cumulative Runoff
---
2.9932 in
.105 ac-ft

HYG Volume... .105 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .16332 hrs (ID: SUBAREA ON-1B)
Computational Incr, Tm = .02178 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 2.91 cfs
Unit peak time Tp = .10888 hrs
Unit receding limb, Tr = .43552 hrs
Total unit time, Tb = .54440 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 8.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = - SUBAREA ON-1B Dev100
Tc = .1633 hrs
Drainage Area = .420 acres Runoff CN= 72

==========
Computational Time Increment = .02178 hrs
Computed Peak Time = 12.1292 hrs
Computed Peak Flow = 1.87 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.1500 hrs
Peak Flow, Interpolated Output = 1.86 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-1B
CN = 72
Area = .420 acres
S = 3.8889 in
0.2S = .7778 in

Cumulative Runoff
---
4.6944 in
.164 ac-ft

HYG Volume... .164 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .16332 hrs (ID: SUBAREA ON-1B)
Computational Incr, Tm = .02178 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 2.91 cfs
Unit peak time Tp = .10888 hrs
Unit receding limb, Tr = .43552 hrs
Total unit time, Tb = .54440 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 1 year storm
Duration = 24.0000 hrs Rain Depth = 3.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = - SUBAREA ON-2 Dev 1
Tc = .2756 hrs
Drainage Area = .770 acres Runoff CN= 71

==========
Computational Time Increment = .03674 hrs
Computed Peak Time = 12.2352 hrs
Computed Peak Flow = .43 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.2500 hrs
Peak Flow, Interpolated Output = .43 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-2
CN = 71
Area = .770 acres
S = 4.0845 in
0.2S = .8169 in

Cumulative Runoff
---
.7604 in
.049 ac-ft

HYG Volume... .049 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .27557 hrs (ID: SUBAREA ON-2)
Computational Incr, Tm = .03674 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 3.17 cfs
Unit peak time Tp = .18371 hrs
Unit receding limb, Tr = .73484 hrs
Total unit time, Tb = .91856 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm
Duration = 24.0000 hrs Rain Depth = 5.5000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = - SUBAREA ON-2 Dev 10
Tc = .2756 hrs
Drainage Area = .770 acres Runoff CN= 71

==========
Computational Time Increment = .03674 hrs
Computed Peak Time = 12.1984 hrs
Computed Peak Flow = 1.58 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 1.58 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-2
CN = 71
Area = .770 acres
S = 4.0845 in
0.2S = .8169 in

Cumulative Runoff
---
2.5014 in
.161 ac-ft

HYG Volume... .161 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .27557 hrs (ID: SUBAREA ON-2)
Computational Incr, Tm = .03674 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 3.17 cfs
Unit peak time Tp = .18371 hrs
Unit receding limb, Tr = .73484 hrs
Total unit time, Tb = .91856 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm
Duration = 24.0000 hrs Rain Depth = 6.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = - SUBAREA ON-2 Dev 25
Tc = .2756 hrs
Drainage Area = .770 acres Runoff CN= 71

==========
Computational Time Increment = .03674 hrs
Computed Peak Time = 12.1984 hrs
Computed Peak Flow = 1.84 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 1.84 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-2
CN = 71
Area = .770 acres
S = 4.0845 in
0.2S = .8169 in

Cumulative Runoff
---
2.8988 in
.186 ac-ft

HYG Volume... .186 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .27557 hrs (ID: SUBAREA ON-2)
Computational Incr, Tm = .03674 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 3.17 cfs
Unit peak time Tp = .18371 hrs
Unit receding limb, Tr = .73484 hrs
Total unit time, Tb = .91856 hrs

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
Duration = 24.0000 hrs Rain Depth = 8.0000 in
Rain Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Rain File -ID = - TypeIII 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
HYG File - ID = - SUBAREA ON-2 Dev100
Tc = .2756 hrs
Drainage Area = .770 acres Runoff CN= 71

==========
Computational Time Increment = .03674 hrs
Computed Peak Time = 12.1984 hrs
Computed Peak Flow = 2.92 cfs

Time Increment for HYG File = .0500 hrs
Peak Time, Interpolated Output = 12.2000 hrs
Peak Flow, Interpolated Output = 2.92 cfs
==========

DRAINAGE AREA
---
ID:SUBAREA ON-2
CN = 71
Area = .770 acres
S = 4.0845 in
0.2S = .8169 in

Cumulative Runoff
---
4.5792 in
.294 ac-ft

HYG Volume... .294 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = .27557 hrs (ID: SUBAREA ON-2)
Computational Incr, Tm = .03674 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 3.17 cfs
Unit peak time Tp = .18371 hrs
Unit receding limb, Tr = .73484 hrs
Total unit time, Tb = .91856 hrs

**ROUTING POST-DEVELOPMENT FLOWS**

**FROM SUBAREA ON-1A**

**THROUGH STORM WATER DENTION POND**

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\PIARIA_POST.PPW

| Elevation (ft) | Planimeter (sq.in) | Area (acres) | A1+A2+sqr(A1*A2) (acres) | Volume (ac-ft) | Volume Sum (ac-ft) |
|---|---|---|---|---|---|
| 386.00 | ----- | .0627 | .0000 | .000 | .000 |
| 387.00 | ----- | .0874 | .2241 | .075 | .075 |
| 388.00 | ----- | .1151 | .3028 | .101 | .176 |
| 388.20 | ----- | .1192 | .3514 | .023 | .199 |
| 388.30 | ----- | .1213 | .3607 | .012 | .211 |
| 388.40 | ----- | .1234 | .3670 | .012 | .223 |
| 388.50 | ----- | .1256 | .3735 | .012 | .236 |
| 388.60 | ----- | .1277 | .3799 | .013 | .248 |
| 388.70 | ----- | .1299 | .3864 | .013 | .261 |
| 389.00 | ----- | .1364 | .3994 | .040 | .301 |
| 390.00 | ----- | .1612 | .4459 | .149 | .450 |
| 391.00 | ----- | .1855 | .5196 | .173 | .623 |
| 392.00 | ----- | .2161 | .6018 | .201 | .824 |

POND VOLUME EQUATIONS

* Incremental volume computed by the Conic Method for Reservoir Volumes.

Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + sq.rt.(Area1*Area2))

where: EL1, EL2 = Lower and upper elevations of the increment
Area1,Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\PIARIA_POST.PPW

REQUESTED POND WS ELEVATIONS:

Min. Elev.= 386.00 ft
Increment = .50 ft
Max. Elev.= 392.00 ft

**********
OUTLET CONNECTIVITY
**********

---> Forward Flow Only (UpStream to DnStream)
<--- Reverse Flow Only (DnStream to UpStream)
<---> Forward and Reverse Both Allowed

| Structure | No. | | Outfall | E1, ft | E2, ft |
|---|---|---|---|---|---|
| Weir-Rectangular | W1 | ---> | CV | 388.500 | 392.000 |
| Orifice-Circular | O1 | ---> | CV | 386.000 | 392.000 |
| Culvert-Circular | CV | ---> | TW | 385.000 | 392.000 |

TW SETUP, DS Channel

OUTLET STRUCTURE INPUT DATA

Structure ID = W1
Structure Type = Weir-Rectangular

| | | |
|---|---|---|
| # of Openings | = | 1 |
| Crest Elev. | = | 388.50 ft |
| Weir Length | = | 2.00 ft |
| Weir Coeff. | = | 3.000000 |

Weir TW effects (Use adjustment equation)

Structure ID = O1
Structure Type = Orifice-Circular

| | | |
|---|---|---|
| # of Openings | = | 1 |
| Invert Elev. | = | 386.00 ft |
| Diameter | = | .1700 ft |
| Orifice Coeff. | = | .600 |

File.... F:\Haestad Data-New\PondpackDataFiles\Piaria\PIARIA_POST.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID = CV
Structure Type = Culvert-Circular
---

| | | | |
|---|---|---|---|
| No. Barrels | = | 1 | |
| Barrel Diameter | = | 1.2500 | ft |
| Upstream Invert | = | 385.00 | ft |
| Dnstream Invert | = | 384.00 | ft |
| Horiz. Length | = | 64.00 | ft |
| Barrel Length | = | 64.01 | ft |
| Barrel Slope | = | .01563 | ft/ft |

OUTLET CONTROL DATA...

| | | | |
|---|---|---|---|
| Mannings n | = | .0120 | |
| Ke | = | .5000 | (forward entrance loss) |
| Kb | = | .019790 | (per ft of full flow) |
| Kr | = | .5000 | (reverse entrance loss) |
| HW Convergence | = | .001 | +/- ft |

INLET CONTROL DATA...

| | | |
|---|---|---|
| Equation form | = | 1 |
| Inlet Control K | = | .0078 |
| Inlet Control M | = | 2.0000 |
| Inlet Control c | = | .03790 |
| Inlet Control Y | = | .6900 |
| T1 ratio (HW/D) | = | 1.128 |
| T2 ratio (HW/D) | = | 1.289 |
| Slope Factor | = | -.500 |

Use unsubmerged inlet control Form 1 equ. below T1 elev.
Use submerged inlet control Form 1 equ. above T2 elev.

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...
At T1 Elev = 386.41 ft ---> Flow = 4.80 cfs
At T2 Elev = 386.61 ft ---> Flow = 5.49 cfs

Structure ID = TW
Structure Type = TW SETUP, DS Channel
---
FREE OUTFALL CONDITIONS SPECIFIED

CONVERGENCE TOLERANCES...

| | | |
|---|---|---|
| Maximum Iterations | = | 30 |
| Min. TW tolerance | = | .01 ft |
| Max. TW tolerance | = | .01 ft |
| Min. HW tolerance | = | .01 ft |
| Max. HW tolerance | = | .01 ft |
| Min. Q tolerance | = | .10 cfs |
| Max. Q tolerance | = | .10 cfs |

LEVEL POOL ROUTING SUMMARY

= F:\Haestad Data-New\PondpackDataFiles\Piaria\
= NONE STORED - POND 1A IN Dev 1
= NONE STORED - POND 1A OUT Dev 1

= POND 1A
= POND 1A
= Outlet 1

NS

= 386.00 ft
= .000 ac-ft
= .00 cfs
= .00 cfs
out= .00 cfs
= .0500 hrs

YDROGRAPH SUMMARY

= 3.30 cfs at 12.1000 hrs
= .15 cfs at 15.5500 hrs

= 387.89 ft
.164 ac-ft

c-ft)

.000
.264
.000
.263
.001

-.000 ac-ft (.045% of Inflow Volume)

LEVEL POOL ROUTING SUMMARY

HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Inflow HYG file = NONE STORED - POND 1A IN Dev 10
Outflow HYG file = NONE STORED - POND 1A OUT Dev 10

Pond Node Data = POND 1A
Pond Volume Data = POND 1A
Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

| | | |
|---|---|---|
| Starting WS Elev | = | 386.00 ft |
| Starting Volume | = | .000 ac-ft |
| Starting Outflow | = | .00 cfs |
| Starting Infiltr. | = | .00 cfs |
| Starting Total Qout | = | .00 cfs |
| Time Increment | = | .0500 hrs |

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

| | | | | |
|---|---|---|---|---|
| Peak Inflow | = | 8.08 cfs | at | 12.1000 hrs |
| Peak Outflow | = | 2.50 cfs | at | 12.4500 hrs |
| Peak Elevation | = | 389.02 ft | | |
| Peak Storage | = | .305 ac-ft | | |

MASS BALANCE (ac-ft)

| | | |
|---|---|---|
| + Initial Vol | = | .000 |
| + HYG Vol IN | = | .662 |
| - Infiltration | = | .000 |
| - HYG Vol OUT | = | .661 |
| - Retained Vol | = | .001 |
| Unrouted Vol | = | -.000 ac-ft (.018% of Inflow Volume) |

LEVEL POOL ROUTING SUMMARY

HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Inflow HYG file = NONE STORED - POND 1A IN Dev 25
Outflow HYG file = NONE STORED - POND 1A OUT Dev 25

Pond Node Data = POND 1A
Pond Volume Data = POND 1A
Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

| | | |
|---|---|---|
| Starting WS Elev | = | 386.00 ft |
| Starting Volume | = | .000 ac-ft |
| Starting Outflow | = | .00 cfs |
| Starting Infiltr. | = | .00 cfs |
| Starting Total Qout | = | .00 cfs |
| Time Increment | = | .0500 hrs |

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

| | | | | |
|---|---|---|---|---|
| Peak Inflow | = | 9.06 cfs | at | 12.1000 hrs |
| Peak Outflow | = | 3.54 cfs | at | 12.3500 hrs |
| Peak Elevation | = | 389.16 ft | | |
| Peak Storage | = | .323 ac-ft | | |

MASS BALANCE (ac-ft)

| | | |
|---|---|---|
| + Initial Vol | = | .000 |
| + HYG Vol IN | = | .747 |
| - Infiltration | = | .000 |
| - HYG Vol OUT | = | .745 |
| - Retained Vol | = | .001 |
| Unrouted Vol | = | -.000 ac-ft (.016% of Inflow Volume) |

LEVEL POOL ROUTING SUMMARY

HYG Dir = F:\Haestad Data-New\PondpackDataFiles\Piaria\
Inflow HYG file = NONE STORED - POND 1A IN Dev100
Outflow HYG file = NONE STORED - POND 1A OUT Dev100

Pond Node Data = POND 1A
Pond Volume Data = POND 1A
Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

| | | |
|---|---|---|
| Starting WS Elev | = | 386.00 ft |
| Starting Volume | = | .000 ac-ft |
| Starting Outflow | = | .00 cfs |
| Starting Infiltr. | = | .00 cfs |
| Starting Total Qout | = | .00 cfs |
| Time Increment | = | .0500 hrs |

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

| | | | | |
|---|---|---|---|---|
| Peak Inflow | = | 12.95 cfs | at | 12.1000 hrs |
| Peak Outflow | = | 7.90 cfs | at | 12.2000 hrs |
| Peak Elevation | = | 389.68 ft | | |
| Peak Storage | = | .399 ac-ft | | |

MASS BALANCE (ac-ft)

| | | |
|---|---|---|
| + Initial Vol | = | .000 |
| + HYG Vol IN | = | 1.091 |
| - Infiltration | = | .000 |
| - HYG Vol OUT | = | 1.089 |
| - Retained Vol | = | .001 |
| Unrouted Vol | = | -.000 ac-ft (.011% of Inflow Volume) |

# POST-DEVELOPMENT STORM SUMMARY

## MASTER DESIGN STORM SUMMARY

Network Storm Collection: OrangeCounty

| Return Event | Total Depth in | Rainfall Type | RNF ID |
|---|---|---|---|
| Dev 1 | 3.0000 | Synthetic Curve | TypeIII 24hr |
| Dev 10 | 5.5000 | Synthetic Curve | TypeIII 24hr |
| Dev 25 | 6.0000 | Synthetic Curve | TypeIII 24hr |
| Dev100 | 8.0000 | Synthetic Curve | TypeIII 24hr |

## MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

| Node ID | | Type | Return Event | HYG Vol ac-ft | Trun | Qpeak hrs | Qpeak cfs | Max WSEL ft | Max Pond Storage ac-ft |
|---|---|---|---|---|---|---|---|---|---|
| JUNC 10 | | JCT | 1 | .028 | | 12.1500 | .30 | | |
| JUNC 10 | | JCT | 10 | .091 | | 12.1500 | 1.03 | | |
| JUNC 10 | | JCT | 25 | .105 | | 12.1500 | 1.19 | | |
| JUNC 10 | | JCT | 100 | .164 | | 12.1500 | 1.86 | | |
| *OUT 1AB&2 | | JCT | 1 | .340 | | 12.2000 | .84 | | |
| *OUT 1AB&2 | | JCT | 10 | .912 | | 12.2500 | 4.40 | | |
| *OUT 1AB&2 | | JCT | 25 | 1.036 | | 12.2500 | 6.09 | | |
| *OUT 1AB&2 | | JCT | 100 | 1.548 | | 12.2000 | 12.67 | | |
| POND 1A | IN | POND | 1 | .264 | | 12.1000 | 3.30 | | |
| POND 1A | IN | POND | 10 | .662 | | 12.1000 | 8.08 | | |
| POND 1A | IN | POND | 25 | .747 | | 12.1000 | 9.06 | | |
| POND 1A | IN | POND | 100 | 1.091 | | 12.1000 | 12.95 | | |

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

| Node ID | Type | Return Event | HYG Vol ac-ft | Trun | Qpeak hrs | Qpeak cfs | Max WSEL ft | Max Pond Storage ac-ft |
|---|---|---|---|---|---|---|---|---|
| POND 1A OUT | POND | 1 | .263 | | 15.5500 | .15 | 387.89 | .164 |
| POND 1A OUT | POND | 10 | .661 | | 12.4500 | 2.50 | 389.02 | .305 |
| POND 1A OUT | POND | 25 | .745 | | 12.3500 | 3.54 | 389.16 | .323 |
| POND 1A OUT | POND | 100 | 1.089 | | 12.2000 | 7.90 | 389.68 | .399 |
| SUBAREA ON-1A | AREA | 1 | .264 | | 12.1000 | 3.30 | | |
| SUBAREA ON-1A | AREA | 10 | .662 | | 12.1000 | 8.08 | | |
| SUBAREA ON-1A | AREA | 25 | .747 | | 12.1000 | 9.06 | | |
| SUBAREA ON-1A | AREA | 100 | 1.091 | | 12.1000 | 12.95 | | |
| SUBAREA ON-1B | AREA | 1 | .028 | | 12.1500 | .30 | | |
| SUBAREA ON-1B | AREA | 10 | .091 | | 12.1500 | 1.03 | | |
| SUBAREA ON-1B | AREA | 25 | .105 | | 12.1500 | 1.19 | | |
| SUBAREA ON-1B | AREA | 100 | .164 | | 12.1500 | 1.86 | | |
| SUBAREA ON-2 | AREA | 1 | .049 | | 12.2500 | .43 | | |
| SUBAREA ON-2 | AREA | 10 | .161 | | 12.2000 | 1.58 | | |
| SUBAREA ON-2 | AREA | 25 | .186 | | 12.2000 | 1.84 | | |
| SUBAREA ON-2 | AREA | 100 | .294 | | 12.2000 | 2.92 | | |

# APPENDIX H

# STORM WATER MANAGEMENT CALCULATIONS

## - WATER QUALITY -

## WATER QUALITY CALCULATIONS
## - SAND FILTER -

## SUBAREA ON-1A

Volume

ervious (I) = I/A
= 1.69/(1.20)
= .5750 = 57.50%

ıe (Rv) = 0.05 + .009 (I)
= .5675

ity Vol. (WQv) = 1.2 (Rv) (A) / 12
= 1.2 (.5675) (1.20) /12
= 0.068 Ac-Ft. (2,979 CF)

To The Sand Filter

P = 1.2 Inches
WQv = 2,979 C.F.
A = 1.20 Acres
Tc = .10 Hours

$$WQv = \frac{2{,}979 \times 12}{1.20 \times 43{,}560} = 0.68 \text{ Inches}$$

$$\frac{1000}{[10 + 5P + 10Qa - 10(Qa^2 + 1.25QaP)^{.5}]}$$

$$\frac{1000}{[10 + 5(1.2) + 10(.68) - 10(.68^2 + 1.25(.68 \times 1.2))^{.5}]}$$

$$\frac{1000}{[10 + 6 + 6.8 - 10\,(1.48)^5]} = 94.12 \quad \text{Say } 95$$

$$\frac{1000 - 10}{CN} = \frac{1000 - 10}{95} = 0..526$$

$.2S = .2\,(.526) = .1053$

$$\frac{.1053}{1.2} = .0877$$

5, Page 4-7 for a Type III Storm
= 660 Cfs/Sq.Mi./In

$= Q_u \times A \times Q_a$

$= \frac{660 \text{ Cfs / Sq.Mi.}}{\text{In.}} \times \frac{1.20 \text{ Ac}}{640 \text{ Ac/Sq.Mi}} \times .68 \text{ In.} = 0.84 \text{ Cfs}$

Flow To Be Diverted To Sand Filter

Use A 6-Inch Pipe To Divert Flow To Sand Filter

$Q = CA(2GH)^{0.5}$ where $c = 0.60$

$0.84 = .60 \times (.785 \times .25)(2 \times 32.2 \times H)^{0.5}$

$H = .76$ Ft.

Total Head Differential In Diversion Basin

H = .76 Ft.

+ .25 Ft. (1/2 pipe dia.)

1.01 Ft. Say 1.0 Ft.

| | |
|---|---|
| Invert Out Of Catch Basin No. 7= | 397.30 Ft. |
| Less Total Head Differential | 1.00 Ft. |
| Invert Out To Sand Filter | 396.30 Ft. |

Size The Sedimentation Chamber Of The Sand Filter For 25% Of The WQv:

Assume 2.5 Feet in depth

Vol. = .25 x WQv

= .25 x 2,979 = 745 Cf

As = 745 Cf / 2.5 Ft. = 298 Sf Try 15 Ft by 20 Ft (300 Sq Ft)

Size The Filtration Chamber Of The Sand Filter For 75% Of The WQv:

Vol. = .75 x WQv

= .75 x 2,979 = 2,235 Cf

Darcy's Law

$$Af = \frac{WQ_v \times (d_f)}{[k \times (hf+df) \times tf]}$$

where $d_f$ = 18 Inches (filter thickness)
$k$ = 3.5 Ft/Day (flow-through rate)
$h_f$ = 2.0 Ft (average head on filter)
$t_f$ = 40 Hours (drain time)

$$= \frac{2,979 \times (1.5)}{3.5 \times (2.0 + 1.5) \times (40/24)}$$

= 220 Sf Try 15 Ft x 15 Ft (225 Sf)

Volume Within Filter Bed

$V_f = A_f (d_f) n$ where $A_f$ = filter area

= 225 Sf (1.5 Ft) .4 $n$ = 0.4 for sand

= 135 Cf $d_f$ = 18 Inches (filter thickness)

Temporary Storage Above Sand Filter Bed

$V_{f\text{-temp}} = 2 (h_f) A_f$ where $h_f$ = 2.0 Ft (average head on filter)

= 2 (2 ft) 225 Sf $A_f$ = filter area

= 900 Cf

Storage In Sedimentation Chamber

Vs = (2.5 Ft x 300) + (2 x 2 Ft x 300 Sf)

= 1,950 Cf

Total Storage In Chamber

$V_{tot}$ = $V_f + V_{f\text{-}temp} + V_s$

= 135 Cf + 900 Cf + 1,950 Cf

= 2,985 Cf > 2,235 Cf (75% Of WQv)

Size The Overflow Weirs of the Sedimentation Chamber and Filtration Chamber

Use 6-inch Orifice

$Q = CA(2GH)^{0.5}$ where C = 0.65

$= .60 \times .282 \times 8.02 \times (3.5)^{.5}$ A = 0.282 Sf

= 1.83 Cfs H = 3.5 Ft

Weir Length

$Q = CL(H)^{1.5}$ where c = 3.0 and h = 0.5 Ft

$1.83 \text{ cfs} = 3.0 \times L \times (0.5)^{1.5}$

L = 1.72 Ft Use 2 foot long weir.

# SUBMITTAL HISTORY FOR PLANNING BOARD FILE #05-27

## APPLICANT: PIARIA, INC.

DATE RECEIVED: 05-03-2006

ITEM RECEIVED: PLANS FOR STAMPING - COST ESTIMATE

DISTRIBUTION: COST ESTIMATE & ONE PLAN TO MARK FOR APPROVAL

RESULTS: _____

Plans in GRAY CABINET

# SUBMITTAL HISTORY FOR PLANNING BOARD FILE #05-27

## APPLICANT:PIARIA INC.

DATE RECEIVED: 03-17-06

ITEM RECEIVED: 8 - SITE PLANS REVISED 3/14/06
2 - STORM WATER POLLUTION PLANS

DISTRIBUTION: SENT ONE OF EACH TO MARK 4/17/06 - REMAINDER OF PLANS IN FILE - POLLUTION PLAN IN GRAY CABINET

RESULTS: ____

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 07/24/2006 PAGE: 1

LISTING OF PLANNING BOARD**ACTIONS**

STAGE: STATUS [Open, Withd]
A [Disap, Appr]

FOR PROJECT NUMBER: 5-27
NAME: PIARIA INC. PA2005-662
APPLICANT: PIARIA INC.

| --DATE-- | MEETING-PURPOSE | ACTION-TAKEN |
|---|---|---|
| 07/21/2006 | PLANS STAMPED | APPROVED |
| 12/14/2005 | P.B. APPEARANCE - PUB HEARIN | LA:CL PH - RETURN<br>. NEED HIGHWAY APPROVAL - O.C. PLANNING APPROVAL - NEED FUL<br>. EAF - ADD HOURS OF OPERATION TO PLAN - RETAINING WALL NEEDS<br>. FENCE - RETURN |
| 09/28/2005 | P.B. APPEARANCE | LA: SCH PH |
| 07/20/2005 | WORK SHOP | SUBMIT |

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 07/24/2006 PAGE: 1

LISTING OF PLANNING BOARD SEQRA ACTIONS

FOR PROJECT NUMBER: 5-27
NAME: PIARIA INC. PA2005-662
APPLICANT: PIARIA INC.

| | DATE-SENT | ACTION | DATE-RECD | RESPONSE |
|---|---|---|---|---|
| ORIG | 08/22/0505 | EAF SUBMITTED | 08/22/2005 | WITH APPLIC |
| ORIG | 08/22/0505 | CIRCULATE TO INVOLVED AGENCIES | / / | |
| ORIG | 08/22/0505 | LEAD AGENCY DECLARED | 09/28/2005 | TOOK LA |
| ORIG | 08/22/0505 | DECLARATION (POS/NEG) | / / | |
| ORIG | 08/22/0505 | SCHEDULE PUBLIC HEARING | 09/28/2005 | SCHED PH |
| ORIG | 08/22/0505 | PUBLIC HEARING HELD | 12/14/2005 | CLOSED PH |
| ORIG | 08/22/0505 | WAIVE PUBLIC HEARING | / / | |
| ORIG | 08/22/0505 | PRELIMINARY APPROVAL | / / | |
| ORIG | 08/22/0505 | | / / | |
| ORIG | 08/22/0505 | LEAD AGENCY LETTER SENT | / / | |

P.B. # 05-27 Approval Fee

# Town of New Windsor

555 Union Avenue
New Windsor, NY 12553
(845) 563-4611

## RECEIPT
## #600-2006

07/21/2006

Piaria Inc
20-40 42nd Street
Astoria, NY 11105

Received $ 125.00 for Planning Board Fees, on 07/21/2006. Thank you for stopping by the Town Clerk's office.

As always, it is our pleasure to serve you.

**Deborah Green**
Town Clerk

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 07/21/2006 PAGE: 1

LISTING OF PLANNING BOARD **FEES**
**ESCROW**

FOR PROJECT NUMBER: 5-27
NAME: PIARIA INC. PA2005-662
APPLICANT: PIARIA INC.

| --DATE-- | DESCRIPTION--------- | TRANS | --AMT-CHG | -AMT-PAID | --BAL-DUE |
|---|---|---|---|---|---|
| 08/22/2005 | REC. CK. #1004 | PAID | | 750.00 | |
| 09/28/2005 | P.B. ATTY. FEE | CHG | 35.00 | | |
| 09/28/2005 | P.B. MINUTES | CHG | 44.00 | | |
| 12/14/2005 | P.B. ATTY. FEE | CHG | 35.00 | | |
| 12/14/2005 | P.B. MINUTES | CHG | 110.00 | | |
| 04/26/2006 | P.B. MINUTES | CHG | 126.00 | | |
| 04/26/2006 | P.B. ATTY. FEE | CHG | 35.00 | | |
| 06/08/2006 | P.B. ENGINEER FEE | CHG | 702.30 | | |
| 07/20/2006 | REC. CK. #1011 | PAID | | 337.30 | |
| | | TOTAL: | 1087.30 | 1087.30 | 0.00 |

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 07/21/2006 PAGE: 1

LISTING OF PLANNING BOARD **FEES**
**4% FEE**

FOR PROJECT NUMBER: 5-27
NAME: PIARIA INC. PA2005-662
APPLICANT: PIARIA INC.

| --DATE-- | DESCRIPTION--------- | TRANS | --AMT-CHG | -AMT-PAID | --BAL-DUE |
|---|---|---|---|---|---|
| 06/08/2006 | 2% OF 169,364 - INSPECT F | CHG | 3387.28 | | |
| 07/20/2006 | REC. CK. #1012 | PAID | | 3387.28 | |
| | | TOTAL: | 3387.28 | 3387.28 | 0.00 |

**Shaw Engineering** Consulting Engineers

744 Broadway
P.O. Box 2569
Newburgh, New York 12550
(845) 561-3695

July 17, 2006

Chairman Genaro Argenio and
Members of the Planning Board
**TOWN OF NEW WINDSOR**
555 Union Avenue
New Windsor, New York 12553

Re: New Steel Fabricating Building for PIARIA Inc.
Silver Stream Road

Gentlemen:

Enclosed please find the closeout checks for the above referenced project:

| | | |
|---|---|---|
| Final Approval Fee | $ | 125.00 |
| Escrow Fee | $ | 125.00 |
| Inspection Fee | $ | 3,387.28 |

Please let us know when the stamped drawings are available.

Respectfully submitted,

**SHAW ENGINEERING**

Gregory J. Shaw, P.E.
Principal

GJS:mmv
Enclosure

Cc: Ioannis Kosimidis w/Enclosure

AS OF: 06/06/2006 

CHRONOLOGICAL JOB STATUS REP

JOB: 87-56

NEW WINDSOR PLANNING BOARD (Chargeable to Applicant) CLIENT: NEWWIN - TOWN OF NEW WINDSO

TASK: 5- 27

FOR WORK DONE PRIOR TO: 06/06/2006

| TASK-NO | REC | --DATE-- | TRAN | EMPL | ACT | DESCRIPTION--------- | RATE | HRS. | DOLLARS TIME | EXP. | BILLED | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5-27 | 253554 | 03/02/05 | TIME | MJE | WS | SILVER STREAM S/P | 99.00 | 0.40 | 39.60 | | | |
| 5-27 | 267801 | 07/20/05 | TIME | MJE | PM | MM/MB/JP:O'NEILL PKG | 99.00 | 0.20 | 19.80 | | | |
| 5-27 | 267811 | 07/20/05 | TIME | MJE | WS | SILVER STREAM/O'NEIL | 99.00 | 0.40 | 39.60 | | | |
| 5-27 | 271661 | 08/24/05 | TIME | MJE | MR | PIARIA S/P | 99.00 | 0.50 | 49.50 | | | |
| 5-27 | 275680 | 09/27/05 | TIME | MJE | MR | PIARIA SITE PLAN | 99.00 | 0.70 | 69.30 | | | |
| | | | | | | | | | 217.80 | | | |
| 5-27 | 279694 | 11/09/05 | | | | BILL 05-1526 | | | | | -217.80 | |
| | | | | | | | | | | | -217.80 | |
| 5-27 | 284423 | 12/13/05 | TIME | MJE | MR | PIARIA S/P APP | 99.00 | 0.80 | 79.20 | | | |
| 5-27 | 284425 | 12/14/05 | TIME | MJE | MR | PIARIA S/P APP | 99.00 | 0.20 | 19.80 | | | |
| 5-27 | 284427 | 12/14/05 | TIME | MJE | AA | OCDP REF PIARIA | 99.00 | 0.40 | 39.60 | | | |
| 5-27 | 284431 | 12/14/05 | TIME | MJE | MC | TC/SHAW RE PIARIA | 99.00 | 0.30 | 29.70 | | | |
| 5-27 | 285472 | 12/21/05 | TIME | MJE | MC | PIARIA SWPPP W/SHAW | 99.00 | 0.30 | 29.70 | | | |
| | | | | | | | | | 198.00 | | | |
| 5-27 | 287497 | 12/31/05 | | | | BILL 06-292 1/17/06 | | | | | -168.30 | |
| 5-27 | 296890 | 03/23/06 | | | | BILL 06-763 | | | | | -29.70 | |
| | | | | | | | | | | | -198.00 | |
| 5-27 | 301645 | 04/20/06 | TIME | BMM | MR | PIARIA SWPPP RVW | 99.00 | 1.00 | 99.00 | | | |
| 5-27 | 301908 | 04/21/06 | TIME | MJE | MR | PIARIA SITE PLAN RVW | 115.00 | 0.80 | 92.00 | | | |
| 5-27 | 302798 | 04/26/06 | TIME | MJE | MM | Piaria Cond Appl | 115.00 | 0.10 | 11.50 | | | |
| 5-27 | 304696 | 05/02/06 | TIME | MJE | MC | PIRARIA W/SHAW | 115.00 | 0.30 | 34.50 | | | |
| 5-27 | 307098 | 05/19/06 | TIME | BMM | MR | PIARIA EST RVW | 99.00 | 0.50 | 49.50 | | | |
| | | | | | | | | | 286.50 | | | |
| 5-27 | 306796 | 05/24/06 | | | | BILL 06-1236 | | | | | -237.00 | |
| | | | | | | | | | | | -237.00 | |
| | | | | | | TASK TOTAL | | | 702.30 | 0.00 | -652.80 | 49.50 |
| | | | | | | GRAND TOTAL | | | 702.30 | 0.00 | -652.80 | 49.50 |

# Town of New Windsor

**555 Union Avenue**
**New Windsor, New York 12553**
**Telephone: (845) 563-4615**
**Fax: (845) 563-4689**


## OFFICE OF THE PLANNING BOARD

June 8, 2006

Shaw Engineering
P.O. Box 2569
Newburgh, NY 12550

ATTN: GREG SHAW, P.E.

SUBJECT: PIARIA INC. - P.B. #05-27

Dear Greg:

Please find attached printouts of fees due for subject project.

Please contact your client, the applicant, and ask that payment be submitted in separate checks, payable to the Town of New Windsor, as follows:

| | |
|---|---|
| Check #1 – Approval Fee.....$ | 125.00 |
| Check #2 – Amount over Escrow Posted.....$ | 337.30 |
| Check #3 – 2% of Cost Estimate – Inspection fee.....$ | 3,387.28 |

Upon receipt of these checks, I will have the plans stamped and signed approved.

If you have any questions in this regard, please contact my office.

Very truly yours,

Myra Mason

Myra L. Mason, Secretary To The
NEW WINDSOR PLANNING BOARD

MLM

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 06/08/2006 PAGE: 1

LISTING OF PLANNING BOARD **FEES**
**APPROVAL**

FOR PROJECT NUMBER: 5-27
NAME: PIARIA INC. PA2005-662
APPLICANT: PIARIA INC.

| --DATE-- | DESCRIPTION--------- | TRANS | --AMT-CHG | -AMT-PAID | --BAL-DUE |
|---|---|---|---|---|---|
| / / | | PAID | | 0.00 | |
| / / | | CHG | 0.00 | | |
| / / | | PAID | | 0.00 | |
| 06/08/0605 | SITE PLAN APPROVAL FEE | CHG | 125.00 | | |
| | | TOTAL: | 125.00 | 0.00 | 125.00 |

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 06/08/2006 PAGE: 1

LISTING OF PLANNING BOARD **FEES**
**ESCROW**

FOR PROJECT NUMBER: 5-27
NAME: PIARIA INC. PA2005-662
APPLICANT: PIARIA INC.

| --DATE-- | DESCRIPTION--------- | TRANS | --AMT-CHG | -AMT-PAID | --BAL-DUE |
|---|---|---|---|---|---|
| 08/22/2005 | REC. CK. #1004 | PAID | | 750.00 | |
| 09/28/2005 | P.B. ATTY. FEE | CHG | 35.00 | | |
| 09/28/2005 | P.B. MINUTES | CHG | 44.00 | | |
| 12/14/2005 | P.B. ATTY. FEE | CHG | 35.00 | | |
| 12/14/2005 | P.B. MINUTES | CHG | 110.00 | | |
| 04/26/2006 | P.B. MINUTES | CHG | 126.00 | | |
| 04/26/2006 | P.B. ATTY. FEE | CHG | 35.00 | | |
| 06/08/2006 | P.B. ENGINEER FEE | CHG | 702.30 | | |
| | | TOTAL: | 1087.30 | 750.00 | 337.30 |

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 06/08/2006 PAGE: 1

LISTING OF PLANNING BOARD **FEES**
**4% FEE**

FOR PROJECT NUMBER: 5-27
NAME: PIARIA INC. PA2005-662
APPLICANT: PIARIA INC.

| --DATE-- | DESCRIPTION--------- | TRANS | --AMT-CHG | -AMT-PAID | --BAL-DUE |
|---|---|---|---|---|---|
| 06/08/2006 | 2% OF 169,364 - INSPECT F | CHG | 3387.28 | | |
| | | TOTAL: | 3387.28 | 0.00 | 3387.28 |

**Shaw Engineering** Consulting Engineers

744 Broadway
P.O. Box 2569
Newburgh, New York 12550
(845) 561-3695

May 2, 2006

Chairman Genaro Argenio and
Members of the Planning Board
**TOWN OF NEW WINDSOR**
555 Union Avenue
New Windsor, New York 12553

Re: New Steel Fabricating Building for PIARIA Inc.
Silver Stream Road

Gentlemen:

We have presented below for your consideration our Construction Estimate for the site improvements for Piaria, Inc. Our Estimate is as follows:

**CONSTRUCTION ESTIMATE**

| ITEM | QUANTITY | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Erosion Control | 2.5 Ac | $ 1,800 | $ 4,500 |
| Catch Basin | 10 | $ 2,700 | $ 27,000 |
| 15" Storm Water Pipe | 779 L.F. | $ 30 | $ 23,370 |
| Storm Water Sand Filter | 1 | $ 20,000 | $ 20,000 |
| Storm Water Detention Basin | 1 | $ 15,000 | $ 15,000 |
| Paving & Base | 2,230 S.Y. | $ 12 | $ 26,760 |
| Parking Space Striping | 361 | $ 9 | $ 3,249 |
| Handicapped Sign & Striping | 2 | $ 200 | $ 400 |
| Concrete Curbing | 747 L.F. | $ 18 | $ 13,446 |
| Concrete Sidewalk | 13 S.Y. | $ 38 | $ 494 |

| ITEM | QUANTITY | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Chainlink Fence | 592 L.F. | $ 12 | $ 7,104 |
| Retaining Wall | 99 L.F. | $ 40 | $ 3,960 |
| Split Rail Fence | 107 L.F. | $ 8 | $ 856 |
| Pole With Single Luminaire | 3 | $ 1,500 | $ 4,500 |
| Building Wall-Pak | 6 | $ 500 | $ 3,000 |
| Landscaping Trees | 25 | $ 180 | $ 4,500 |
| Landscaping Shrubs | 34 | $ 25 | $ 850 |
| Topsoil & Seeding | 8,300 S.Y. | $ 1.25 | $ 10,375 |
| Total | | | $ 169,364 |

Should this Estimate be acceptable, my client will pay the 2% inspection fee of $ 3,387.28.

Respectfully submitted,

**SHAW ENGINEERING**

Gregory J. Shaw, P.E.
Principal

GJS:mmv

Cc: Ioannis Kosimidis, Piaria Inc.

PIARIA_SITE_PLAN_(05-27)

Mr. Gregory Shaw of Shaw Engineering appeared before the board for this proposal.

MR. PETRO: Proposal is for construction of 9,800 square foot building along with the 5,180 square foot truck canopy and 22 parking spaces. This application proposes the construction, just read it in, I'm not going to do it again. Property's in a PI zone in the Town, plan indicates that proposed use is special permit, again 8 percent, 11 percent on the parking lot. Greg, did you look at that and can't do any better than that?

MR. SHAW: The parking spaces are at 5 percent which is what this board will allow. The access aisles may be a little steeper coming up the driveway, I'll doublecheck them but I believe this space--

MR. PETRO: You're saying 5, Mark is saying 8 to 11, what is it, Mark?

MR. EDSALL: I'll doublecheck them, I can't check them at the moment, I don't have a scale.

MR. SHAW: For sure the access drive coming off of Silver Stream Road is steeper than 5 percent when you get up to the parking it does flatten out.

MR. PETRO: Are you disturbing more than one acre?

MR. SHAW: Yes.

MR. PETRO: Disturbing more than one?

MR. SHAW: Yes.

MR. PETRO: So you're going to have to comply with the storm water management plan.

MR. SHAW: Yes because you'll see that we have a storm water management facility consisting of a water quality detention pond.

MR. PETRO: Let's go over the plan.

MR. SHAW: As you mentioned, it's a 4.3 acre parcel in a PI zone, this is a permitted use within the zone which is a steel fabricating facility but it does require a special permit from this board. Inside the building itself we're going to have an area that's going to be designated as light manufacturing, there will be some warehouse space and also be a small office space of about 500 square feet. We're required to provide 22 parking spaces and we're providing 22 parking spaces. The building will be connected to the Town's water and sewer system which is available on Silver Stream Road. This butts up against the Thruway property and if the board would just notice that we're not draining any storm water onto the Thruway that has been the problem I believe in the past with development along the Thruway, we're not on the ridge line so all the drainage is coming into Silver Stream and into our pond so we will not be affecting the Thruway whatsoever. And with this we have also included erosion control plans, site lighting plans and also landscaping plans for this board's review. So we feel the submission is complete. As I mentioned there will be a steel fabricating facility subject to a special permit which will require a public hearing by this board.

MR. PETRO: If that parking is correct as Mark stated you might have to cut in a retaining wall on the high side, you keep that cut, that parking into that slope?

MR. SHAW: Correct.

MR. PETRO: Now let me ask you this, you're going to

put in these retention ponds and looks like there's two of them.

MR. SHAW: Not really all one pond, there's two components of it, one is a four bay which receives the storm water which settles out the sand and the sediment and then it flows from that into what's called the outlet pool which will have wetlands vegetation and it will actually through the DOT final polishing of the storm water before it leaves the site.

MR. PETRO: It's all going to be fenced?

MR. SHAW: Yes.

MR. PETRO: That's an absolute outrage, it's so stupid that it bothers me just looking at it.

MR. SHAW: Unfortunately, you're going to have to get used to it because it's the law.

MR. ARGENIO: What are you talking about the water quality?

MR. PETRO: Two more ponds, why do we need two more ponds for mosquitoes and everything else because we don't want the water to run where it's been going for 300 years because some environmentalist thinks some oil is going to go down here and kill a mosquito, that's two more ponds on that one site, it's ridiculous and state mandated, right, can't change it.

MR. EDSALL: Federal to the state to us.

MR. PETRO: And your alternative is to put an underground system in.

MR. SHAW: Alternative is to put an underground system in, not only detention but also water quality which is forget about the maintenance point of view, it's

hundreds of thousands of dollars.

MR. PETRO: And this only works because your lot just happens to be big enough that you have a place to even put that silly pond.

MR. SHAW: Correct, what happens Mr. Chairman is a lot of times when someone comes in with a parcel that they want to develop maybe it's two acres on a state highway I have the pleasure of informing them that they don't have two buildable acres and we have to reserve out a portion for a pond or basin or whatever have you at the lower end of the site and does consume a good amount of parcel.

MR. PETRO: Mark, who takes care of the ponds?

MR. EDSALL: For a site plan it's the property owner's responsibility.

MR. PETRO: And a subdivision Town will have to?

MR. EDSALL: Oh, subdivision Town creates a drainage district.

MR. PETRO: Well there's nothing I can do about it, I just feel sorry for all the people who are going to have these all around their houses. All right, back to the site plan, how are you lighting, I see you have wall packs on the building?

MR. SHAW: There's a lighting plan, Mr. Chairman, it is on drawing 3 and there are two poles and the only lighting around the building is just for security.

MR. KARNAVEZOS: How are you going to get to it, see the truck canopy here, are you going through the building to get to it?

MR. SHAW: Yes.

MR. KARNAVEZOS: Not going to put any kind of--

MR. SHAW: No, the grades won't allow it and my client doesn't want to, he feels in his operation and he has other steel fabricating facilities throughout the state that that works fine for him so I take him at his word.

MR. KARNAVEZOS: Okay.

MR. EDSALL: Jim, I just checked slopes, the center line slope initially is around 15 percent coming in then it goes to about 7, 7 1/2, the 4 areas vary from around 4 percent up to over 8 so it's not quite 11 but it does vary from like I said 4 to up to about 8.

MR. PETRO: Okay, any type of landscaping what you're putting around the pond, the outlet for the pond is in that low corner then it goes down into what?

MR. SHAW: To a roadside swale which is where the storm water discharges now, there's no drainage other than that swale on Silver Stream Road and again with the whole idea of holding back our water and let it bleed out slowly so it doesn't exceed the rate of the existing flow that's, the swale will be able to carry it.

MR. PETRO: You're telling me I know we're back on the pond that that four bay pond before it goes into the big pond is to collect the silt and sand?

MR. SHAW: It's a sump hole, it's not really two, it's one with two components.

MR. PETRO: First component after three years when it's filled up and needs to be maintained you're telling me that the tenants in this building or the owner of the building is going to go out there and maintain that little pond? I can't get him to change a filter in the

ceiling for the heat and they're going to go out and take that pond apart?

MR. SHAW: They're supposed to.

MR. PETRO: All right, curb cut existing.

MR. SHAW: No, there's no existing curb cut whatsoever.

MR. PETRO: So you're going to--

MR. SHAW: No, we're accessing onto Silver Stream Road.

MR. PETRO: All right, let me look here, Greg, what else do you need here tonight?

MR. SHAW: I really just need the lead agency and to set up the public hearing for the special permit.

MR. PETRO: Motion.

MR. ARGENIO: I'll make a motion that the New Windsor Planning Board take lead agency on the Piaria site plan.

MR. GALLAGHER: Second it.

MR. PETRO: Motion's been made and seconded that the New Windsor Planning Board declare itself lead agency for the Piaria site plan on Silver Stream Road. Any further discussion from the board members? If not, roll call.

ROLL CALL

| | |
|---|---|
| MR. GALLAGHER | AYE |
| MR. MINUTA | AYE |
| MR. KARNAVEZOS | AYE |
| MR. ARGENIO | AYE |
| MR. PETRO | AYE |

MR. PETRO: Motion to have a public hearing scheduled.

MR. ARGENIO: I'll make that motion.

MR. KARNAVEZOS: Second it.

MR. PETRO: Motion has been made and seconded that the New Windsor Planning Board have a public hearing for the Piaria site plan on Silver Stream Road. Any further discussion from the board members? If not, roll call.

ROLL CALL

| | |
|---|---|
| MR. GALLAGHER | AYE |
| MR. MINUTA | AYE |
| MR. KARNAVEZOS | AYE |
| MR. ARGENIO | AYE |
| MR. PETRO | AYE |

MR. PETRO: You can get together with Myra, she'll set it up with you when you're ready and get the notices out and have your public hearing.

MR. EDSALL: We'll forward this to the County as well.

MR. PETRO: Yes, straighten the parking out, Greg.

MR. SHAW: Yes, absolutely I will revise it.

MR. PETRO: Also highway is under review and fire has been disapproved so you're going to have to straighten that out too.

MR. PETRO: As of 9/21/2005 insufficient accessibility to entire building, so you have to get together with the fire guys, see what's going on.

MR. SHAW: Okay.

MS. MASON: Greg, get me a check for $25.

MR. SHAW: Okay, thank you.

McGOEY, HAUSER and EDSALL
CONSULTING ENGINEERS P.C.

RICHARD D. McGOEY, P.E. (NY & PA)
WILLIAM J. HAUSER, P.E. (NY & NJ)
MARK J. EDSALL, P.E. (NY, NJ & PA)
JAMES M. FARR, P.E. (NY & PA)

MAIN OFFICE
33 AIRPORT CENTER DRIVE
SUITE 202
NEW WINDSOR, NEW YORK 12553

(845) 567-3100
FAX: (845) 567-3232
E-MAIL: MHENY@MHEPC.COM

WRITER'S E-MAIL ADDRESS:
MJE@MHEPC.COM

# TOWN OF NEW WINDSOR
# PLANNING BOARD
# REVIEW COMMENTS

| | |
|---|---|
| **PROJECT NAME:** | PIARIA INC. SITE PLAN<br>(Steel Fabrication Facility) |
| **PROJECT LOCATION:** | SILVER STREAM ROAD<br>SECTION 3 – BLOCK 1 – LOT 15 |
| **PROJECT NUMBER:** | 05-27 |
| **DATE:** | 26 APRIL 2006 |
| **DESCRIPTION:** | THE APPLICATION PROPOSES THE CONSTRUCTION OF A 9800 SF STRUCTURE WITH 5180 SF CANOPY WITH ASSOCIATED SITE IMPROVEMENTS. THE PLAN WAS PREVIOUSLY REVIEWED AT THE 28 SEPTEMBER 2005 AND 14 DECEMBER 2005 PLANNING BOARD MEETINGS. |

1. The property is located in the PI zoning district of the Town. The plan indicates that proposed use as Special Permit Use B-3 (Manufacturing, etc., with storage). The site easily complies with the minimum requirements, and has adequate parking based on the parking calculation on the plan.

   The applicant is before the Board seeking Site Plan and Special Permit Approvals.

2. Procedurally for the application, note the following:

   - Highway Approval has now been issued on 3-18-06
   - The Board assumed Lead Agency for SEQRA on 9-28-05.
   - A public hearing was held and closed on 12-14-05.
   - O.C. Planning Dept. has returned this for "Local Determination".
   - Our office has reviewed and accepted the SWPPP.

3. The Planning Board may wish to classify this action as an "unlisted action" under SEQRA, and consider a "negative declaration" of environmental significance, based on the information presented and reviewed.

4. Some minor corrections are requested on the final plans, as follows:

   - Add a white stripe on the transition between the handicapped access aisle and the adjoining standard parking space.
   - Add NWPB project number in approval boxes.

5. Prior to considering Special Permit Approval, the Board should make the following determinations with regard to the application:

   - That all proposed structures, equipment or materials are readily accessible for fire and police protection.
   - That the proposed use and laycut are in harmony with the orderly development of the zoning district, and will not have a detrimental effect on the adjacent properties.

   Following this determination, the Board should consider granting the special permit, with any conditions or terms as the board may deem appropriate.

6. If an approval is considered, I recommend the following conditions:

   - The corrections to the plan, noted by the Engineer for the Planning Board, are completed on the plans submitted for stamp of approval.
   - The applicant shall submit a bond estimate for the Site Plan in accordance with Chapter 137 of the Town Code.
   - That the Planning Board Secretary be directed to return a "Local Action Form" for this approval to the Orange County Department of Planning.
   - That all fees are paid prior to stamp of approval.

Respectfully Submitted,

Mark J. Edsall, P.E., P.P.
Planning Board Engineer

MJE/st
NW05-27-26Apr06.doc

# Town of New Windsor

555 Union Avenue
New Windsor, New York 12553
Telephone: (845) 563-4615
Fax: (845) 563-4693

**OFFICE OF THE PLANNING BOARD**

**PROJECT REVIEW SHEET**

RECEIVED
APR 20 '06
N.W. HIGHWAY DEPT.

**TO: HIGHWAY DEPARTMENT**

P.B. FILE #**05-27** DATE RECEIVED: **03-17-06** TAX MAP #

**PLEASE RETURN COMPLETED FORM TO MYRA BY: 04-24-06 TO BE ON AGENDA FOR THE 04-26-06 PLANNING BOARD MEETING.**

THE MAPS AND/OR PLANS FOR:

**PIARIA INC. SITE PLAN**
Applicant or Project Name

SITE PLAN **XXX**, SUBDIVISION ____, LOT LINE CHANGE ____, SPECIAL PERMIT ____

HAVE BEEN REVIEWED BY THE UNDERSIGNED AND ARE:

☑ APPROVED:

Notes:_____

☐ DISAPPROVED:

Notes:_____

Signature: _____ 4/26/06
Reviewed by date

RESULTS OF P.B. MEETING OF: April 26, 2006

PROJECT: Piazza, Inc. P.B. # 05-27

**LEAD AGENCY:**

AUTHORIZE COORD. LETTER: Y____ N____
TAKE LEAD AGENCY: Y____ N____

M)___ S)___ VOTE: A___ N___
CARRIED: Y____ N____

**NEGATIVE DEC:**

M) S S) G VOTE: A 4 N 1
CARRIED: Y ✓ N____

Statement (M) S (S) G
5-0
A N

**PUBLIC HEARING:** WAIVED:_____ CLOSED:_____

M) _____ S)_____ VOTE: A____N____ SCHEDULE P.H.: Y_____N____

SEND TO O.C. PLANNING: Y____
SEND TO DEPT. OF TRANSPORTATION: Y____

REFER TO Z.B.A.: M)_____ S)____ VOTE: A____N_____

RETURN TO WORK SHOP: Y___N____

**APPROVAL:**

spec. plan S B
Site Plan M) S S) G VOTE: A 4 N 1 APPROVED: 4-26-06

NEED NEW PLANS: Y____N____

**CONDITIONS – NOTES:**

Mark's Comments
Cost Estimate
Local Action form - OCP

# TOWN OF NEW WINDSOR


TOWN CLERK'S OFFICE
555 UNION AVENUE
NEW WINDSOR, NEW YORK 12553
Telephone: (845) 563-4611
Fax: (845) 563-4670

RECEIVED
MAY 10 2006
TOWN CLERK'S OFFICE

## REQUEST FOR PUBLIC RECORDS

Date: May 10, 2006

Name: Tom Shapiro

Address: 45 Vails Gate Hts OD

Phone: ( ) 565-7514

Representing: SELF

**Please specify:**

- **Property location (street address or section, block and lot number)**
- **Department you are requesting records from**
- **Describe information requested as fully as possible**

Building
PHARMA Inc. Site Plan

***Documents may not be taken from this office.***

PIARIA_SITE_PLAN_(05-27)

Gregory Shaw of Shaw Engineering appeared before the board for this proposal.

MR. ARGENIO: Application proposes construction of a 9,800 square foot structure on Silver Stream Road with 5,180 square foot canopy. Plan was previously reviewed at the 28 September, 2005, 14 December, 2005 planning board meetings. Mr. Shaw is here to represent this, go ahead.

MR. SHAW: Thank you. Board has seen this many times. I'll just give you a real brief overview. It's on Silver Stream Road, it's on a 4.3 acre parcel of which they're going to be disturbing 2.5 acres. There will be one access off Silver Stream Road. The property will be serviced by Town water and Town sewer system and with respect to the storm drainage, we're disturbing over one acre, therefore, we have incorporated into the design of the site a detention pond to detain peak flows and a sand filter to filter the storm water and improve its quality. The last time we were before this board was in December where we had a public hearing on the special permit. We closed the public hearing that night, I believe the board had declared lead agency in September in 2005. So hopefully we're here tonight just to rap up some clean-up items. When we left the board the last time the board wanted us to submit a long environmental assessment form which we did, you wanted the county to review the drawing which it did, the highway superintendent also the new highway superintendent which I believe that's been done, the board also wanted a fence on top of the masonry retaining wall, this portion of the site which protects seven parking spaces.

MR. ARGENIO: What kind of fence did you propose there?

MR. SHAW: A 36 inch high split rail fence with wood split rail fence. And then finally the board and also the board wanted the hours of operation indicated on the plan which is Monday through Saturday 8 to 5 and finally the board wanted the submission of a SWPPP which we have submitted to the board, in fact, your consultant reviewed it and found it to be in conformance with the SPDES discharge regulations. So I believe we have everything in order. What we're asking for tonight is a special permit being in the PI zone and also for site plan approval, I believe all outstanding items have been taken care of.

MR. ARGENIO: One thing Mark you have B-3 here special use permit, B-3 manufacturing with storage, explain to me how the B-3 that's a subsection of the PI zone?

MR. BABCOCK: In the bulk tables it's column B, item 3.

MR. EDSALL: The special permit.

MR. ARGENIO: And the B triggers the special permit?

MR. EDSALL: That's the column.

MR. ARGENIO: Did I interrupt you, Greg?

MR. SHAW: I'm done.

MR. ARGENIO: Procedurally we have highway on this application, folks, planning board members, we have fire, they had some comments but they have been worked out, some accessibility issues, they have been worked out, we took lead agency under SEQRA on 9/8 of '05, public hearing was held and closed on 12/14/05, we had some people here for that public hearing, Orange County Planning Department has returned to us and told us it's local determination, Edsall's office has reviewed and accepted the SWPPP which is storm water pollution protection plan, Greg, as I remember it, wasn't there

an issue of the grades, we may have resolved this?

MR. SHAW: We did.

MR. ARGENIO: Issue with the steepness of the grades coming up the driveway.

MR. SHAW: You brought it up at the first meeting and you reminded us at the second meeting it was resolved for the second meeting so that's history.

MR. ARGENIO: Your fence above the wall, I think you need to include a note on the plan that that split rail fence should be running with some kind of chain link fence, some green or black vinyl or something.

MR. SHAW: If you bear with me, let me look at the plan, I believe the plan calls for chicken wire.

MR. ARGENIO: You didn't say it on there.

MR. SHAW: Yes.

MR. ARGENIO: I asked you what kind of fence, you said split rail and you have on there that it's running with black vinyl chain link so that's, so we have covered that.

MR. SCHLESINGER: Greg, refresh my memory, what's the nature of the operation?

MR. SHAW: Steel fabricating facility, it's going to have a structure totaling 9,800 square feet for the fabrication of steel with a 500 square foot office and attached to it is going to be a 5,200 square foot truck canopy, no side walls, just a canopy then to park the trucks, keep them out of inclement weather when they bring the steel, bring it through the building, leave it under the canopy area and take it off as needed.

MR. SCHLESINGER: Six day a week operation?

MR. SHAW: Yes.

MR. ARGENIO: How many hours a day?

MR. SHAW: Eight to five.

MR. ARGENIO: What do they make in there?

MR. SHAW: They fabricate steel.

MR. ARGENIO: Orange County Choppers?

MR. SHAW: For buildings.

MR. ARGENIO: Butler buildings, things of that nature?

MR. SHAW: Yes.

MR. SCHLESINGER: Was there an issue of trucks coming in and out, something like that at the public hearing?

MR. GALLAGHER: That was a concern at the public hearing.

MR. SHAW: Trucks.

MR. MINUTA: The length of the truck we're looking at 44 foot long as far as steel members being shipped?

MR. SHAW: This is Ioannis Kosmidis, he's the applicant and going to be operating the facility, I asked him the length, he's saying 40 feet maximum.

MR. MINUTA: My question with that is with regard to the access, first of all, I don't have a full understanding of the circulation on the site and getting a 44 foot tractor trailer on this site and how it's going to, what, how the canopy works with

relationship to that, that's item number one. Item number two is we're at the overpass of interstate, of the Thruway that's so congested at that point having tractor trailers of that size moving in and out of there is going to be a real issue and that was definitely raised by the community at the last meeting. So those are my two issues and if they can be, equity be applied, resolved, that's fine, but I don't know how that's been resolved.

MR. SHAW: Well, let's talk about 207, one of the major corridors in the Town of New Windsor Planning Board, all traffic heading west, many, many tractor trailers go through that area, okay, the fact that there may be and again I believe according to the EAF there's two truck deliveries that will come a day that will go through that intersection, that pales in comparison to the number that goes through now and the size of the tractor trailers that go through now so I can't believe that that has any impact on that intersection.

MR. MINUTA: Is that into that road, however, the trucks may be going by, you have a lineal path that's straight, when you're making a turn onto the road here which is Silver Stream Road just passed that intersection we're all very familiar with that, I really see traffic problems at that location.

MR. SHAW: Well, if it's problems getting out of Silver Stream Road, that's going to be my client's problem and he can't correct that, the fact that you, that 207 is a very heavily traveled highway and there's no way to correct it and if my client feels that it's worth the investment in this property and that that's not a problem for him, I don't see why that would be a problem for the Town.

MR. MINUTA: I think it's been raised as a problem from the community for that area.

MR. SHAW: I don't see, are you talking about leaving Silver Stream Road onto 207?

MR. MINUTA: Leaving Silver Stream onto 207.

MR. SHAW: It's no different than any other vehicle, you have to sit there, wait for an opportunity to pull out and then you make a left or a right, it's no more difficult for a 40 foot truck than it is for an 18 foot car.

MR. MINUTA: I would beg to differ on that one.

MR. SCHLESINGER: I think that the issue also is that it's a congested area sometimes during the day.

MR. MINUTA: Extremely.

MR. SCHLESINGER: I don't think the issue is so much the size of the vehicles, you know, it's a, it's become a very tough area.

MR. MINUTA: Only because of its location at this corridor passed the overpass it's so close, I mean, really it's, you know, if were looking at any other thing we'd be looking at 40 foot clearance and being able to see there that's an issue for me from a large trailer trying to negotiate that turn out as well as turning in, I just, I accept the tractor trailers go by there going to Metal Container and National Freight trucks that go by, it's a problem at that intersection.

MR. ARGENIO: There's some heavy industry on that road, the Alco, the hydraulic people there are on the corner.

MR. MINUTA: Are they shipping in steel with 40 foot trucks?

MR. SHAW: We're two trucks maximum a day, that's a small facility, it's 10,000 square feet, this is not a

30,000 square foot steel fabricating mill.

MR. ARGENIO: Certainly that's a good point, Mr. Shaw.

MR. SHAW: It's really just a, just a very small operation for a steel fabricating facility and I know your point about Route 207, the only answer is nothing gets built in that area of the Town until that does get corrected, all right, and I just don't see where that's fair to my applicant to preclude him from development because of existing congestion on 207.

MR. ARGENIO: Neil?

MR. SCHLESINGER: Yeah, I agree with Greg's point and I don't see that getting cleared up basically in probably our lifetime that intersection.

MR. ARGENIO: Well, you're a lot older than me, Neil, hopefully in my lifetime.

MR. SCHLESINGER: Thank you. And, you know, it's not a big operation and I think it's hard to prejudice the applicant.

MR. ARGENIO: It is difficult to do, I think that Joe certainly very eloquently brings up a very, very big concern and I think that concern applies to every lot in that corridor until you get to maybe Kings Road, not even Kings Road, Bethlehem Road whatever that road is just passed Larkin's office on the left there, Mt. Airy Road, Myra corrected me, I think it's a good point but as you said and Neil pointed it out is you're talking about two trucks a day.

MR. SHAW: And the other thing is that it's zoned planned industrial, we cannot build a house there if we wanted to, okay, it's not permitted and it's industrial and you have to pick out a permitted use or a use that has a special permit within that zone. Our hands are

tied and if you're going to put an industrial use in the chances are you're going to have a truck with it, I just think this is a very light use of the property as opposed to what could be there.

MR. MINUTA: That has been recently changed to a PI zone.

MR. BABCOCK: No, it's always been PI, even those houses.

MR. ARGENIO: The line is about up Silver Stream Road.

MR. BABCOCK: The other side is also commercial, you know, it's AP and part of the NC, the houses that are there are non-conforming, they have been there for a million years, the people that are coming in of course live there, I'm sure that in time there will be nobody living on that road.

MR. ARGENIO: Unfortunately, Joe, somebody has to live on the zone line going from zone to zone in the Town.

MR. MINUTA: No issue there, I think I've raised my concerns and that's, I don't have any anything else to say about this.

MR. ARGENIO: Okay, I think what you bring up is a very valid concern. Neil, did you have anything?

MR. SCHLESINGER: I agree with Joe, I think it is what it is.

MR. SHAW: I wish 207 was a six lane highway.

MR. SCHLESINGER: It should be but it's not going to happen.

MR. ARGENIO: We heard from at the public hearing we heard from the public, I'm not going to say they were

up in arms but there was as I remember three or four people here who spoke, is that right, Mike?

MR. BABCOCK: Yes.

MR. ARGENIO: Certainly everybody had a similar concern, actually not so much traffic, Joe, but it was more that they didn't want that use in their neighborhood, that was a big concern, couple of people may have mentioned traffic but they didn't want that use in their neighborhood but as Mike pointed out it's not even a residential zone.

MR. SCHLESINGER: It is what it is.

MR. ARGENIO: The residences there predate the zoning and I think that Mike, correct me if I'm wrong with this statement, the zoning in that area more favors a light industrial development or the concept of light industrial development than it does residential homes.

MR. BABCOCK: Oh, absolutely, it's even heavy industrial.

MR. EDSALL: OLI is light industrial, this is actually again people like us with blacktop plants and things of that nature.

MR. BABCOCK: I've had a few of the people that came to the public hearing, come to my office and look at the plans and look at the zoning maps and I pointed it out to them and I think they clearly understand that their house is in a PI zone and I think they realize that maybe their property's even more valuable today because they're in that PI zone and the concern with the construction of the road they were concerned that the road wouldn't handle the trucks, that's clearly up to the highway superintendent which is--

MR. ARGENIO: Same as Ruscitti Road down near us.

MR. BABCOCK: The intersection is busy to come out of there and make a left-hand turn with a 40 foot truck is probably not going to happen but that's their problem.

MR. EDSALL: At least not during peak periods.

MR. BABCOCK: Hopefully if the interchange gets built from 84 it's going to alleviate some of that problem.

MR. ARGENIO: Let me put you on the spot a little bit, Mark, how do I in good conscience state in the meeting in the meeting minutes that the proposed use and layout are in harmony with the orderly development of the zoning district and will not have a detrimental affect on adjacent properties? Now before you answer that, let me say something. Do I understand what Mike says about the legality of the homes predating the zoning, I understand that and the fact that this use is more in conformance with the spirit of the current zoning than the residential houses, I understand and recognize that, what else can you add to that?

MR. EDSALL: I think what you said is the key element of the basis of making that determination when the Town Board and it's not like it's a recent rezoning, when the Town Board established this as a PI zone they established the goals of what would be developed and what this area of the Town will be used for, so it doesn't say here is it in harmony with pre-existing non-conforming uses, is it in harmony with orderly development of the zoning district. Well, this is what the development is supposed to be according to a town board, I don't know which one when they established this as PI, the orderly development will be this becoming wholly a PI zone and the non-conforming uses the residences will eventually go away and you won't have that residential industrial conflict. But again as all of you said the residential are the non-conforming, it's not this applicant, it's

unfortunate it's a time of transition that's what we're running into.

MR. ARGENIO: I think I can live with that. I think that's reasonable and that's--

MR. EDSALL: Mr. Shaw made a very good point if the intent was to have harmony and he said fine, we'll build a house there, you'd deny him cause you can't build it doesn't, meet the zoning so there's your answer.

MR. ARGENIO: But I, by that it's a good point that that's the spirit and planning board is a quasi administrative body and that's what we're doing, I mean, the zoning is what it is and that's what you have to do, while I'm sensitive to Joe Minuta's comment and I think that certainly we're much better off having a facility there that has a couple of trucks a day rather than 20 trucks a day for freight or some other thing maybe somebody like that wouldn't be inclined to go there because of the traffic, certainly we're better off with a couple of loads a day rather than somebody proposing something substantively more than that.

MR. VAN LEEUWEN: The Town owns quite a bit of property back there, you've seen that?

MR. ARGENIO: Yes.

MR. VAN LEEUWEN: Along the road, okay, they own quite a bit of property, it's right up to that building that's there.

MR. MINUTA: The second part of my question which was the circulation of traffic on the site and the truck canopy, I'd like a little better understanding on what the intent of the truck canopy being in the back and appears to be the only way this can be accessed is through the building.

MR. SHAW: I explained that at the last meeting but it's worth going over again, this is my client's preference, okay, it's his money, but his thoughts are if he's going to need a place to store the trucks, he'd rather store them under an enclosure and the only place that makes sense is at this end of the building so what would happen is that a truck would pull into the site, back in through the building, again, the steel fabricating facility is all computerized, this will be a travel lane, not a fabricating lane, this is a lane where the steel will be loaded and unloaded back on the truck, but the truck would pull in and be stored under the truck canopy, the steel would be pulled off in the building, steel unloaded, truck brought to the rear of the canopy, then when it comes time to put the steel back on the truck again the truck would move into the building, they would put the steel back on the truck and he would leave the site. It's just a place to store the trucks under an enclosure.

MR. SCHLESINGER: The issue is, you know, the actual mobility of the trucks turning and, you know, but, you know, that's up, he runs his business the way he wants to, I can't hold him to that, it's just not the prettiest picture but that's the way he wants to operate his business.

MR. VAN LEEUWEN: Truck and trailer he's using?

MR. KOSMIDIS: Straight trucks, 20 feet flatbeds sometimes deliveries come with 40 feet trailers, sometimes.

MR. VAN LEEUWEN: That's the reason I ask that question.

MR. KOSMIDIS: Maybe two trailers a week.

MR. ARGENIO: I'm going to start going through some

procedural things, certainly if somebody thinks of anything they want to talk about we'll have this opportunity again, Mark, can you elaborate on item number 3?

MR. EDSALL: Yes, at this point, you have only taken lead agency but you have not closed out SEQRA, so I would suggest that you classify this as unlisted and if all your issues are resolved so you're satisfied, adopt a negative dec.

(Whereupon, Mr. Van Leeuwen stepped down from the board.)

MR. ARGENIO: So we assume lead agency, we didn't declare a negative dec, okay, unless anybody disagrees I'll accept a motion that the Town of New Windsor Planning Board declare negative dec under the SEQRA process for the Piaria site plan.

MR. SCHLESINGER: Motion.

MR. GALLAGHER: Second it.

MR. ARGENIO: Motion has been made and seconded that the New Windsor Planning Board declare a negative dec under Piaria site plan on Silver Stream Road. No further discussion, roll call.

ROLL CALL

| | |
|---|---|
| MR. SCHLESINGER | AYE |
| MR. BROWN | AYE |
| MR. MINUTA | NO |
| MR. GALLAGHER | AYE |
| MR. ARGENIO | AYE |

MR. ARGENIO: We have to consider the issuance of the special permit on this application, number one, we have to agree that all proposed structures, equipment and

materials are readily accessible for fire and police protection and that the layout and development of this site is orderly and in conformance with that which is intended in the zoning district. I think I'm going to look for that in the form of a motion that somebody agrees to accept what I just stated for the minutes.

MR. SCHLESINGER: I have a question on that, that the proposed structures, equipment or materials are readily accessible for fire and police protection?

MR. ARGENIO: Right.

MR. SCHLESINGER: I'd like to hear it from the fire department, you know, how they feel about it.

MR. ARGENIO: I cannot tell you that fire inspector accepts the site.

MR. SCHLESINGER: He accepted the layout, the plan.

MR. ARGENIO: Yes, he had some comment, I'll read it to you, Neil, insufficient fire department accessibility, I should of mentioned this before, the entire building as previously noted on 8/26 plan review as of 12/14 of '05, the issue was resolved with the fire inspector. Myra, do you have anything else on that?

MS. MASON: No.

MR. ARGENIO: That's pretty clear.

MR. MINUTA: What were the items of resolution?

MR. SHAW: I can speak to that. I personally met with John McDonald, what he wanted was access paved area behind this building 20 feet wide and he also wanted us to provide some passage doors on the building so not only can his equipment get in but the men can get into the building and that was really the one and only

change.

MR. ARGENIO: And you have accomplished that for him and he's acknowledged that in the agency approvals.

MR. SCHLESINGER: Not to put this off but, you know, you have a private road with a cul-de-sac, fire engine's got to be able to make complete turn in the cul-de-sac, can't do it in this building but, you know, if he's giving the approval, I mean, he's smarter than I am.

MR. ARGENIO: Relative to fire, Neil, he's looked at this and he feels that the pavement there is of sufficient turning radius for him.

MR. SCHLESINGER: Asked for access to the building and access to the back part and he's happy with it.

MR. SHAW: Yes.

MR. SCHLESINGER: He's the expert.

MR. ARGENIO: That's what we look to do typically.

MR. SCHLESINGER: I'm not the fire inspector.

MR. ARGENIO: We look to Mark for expertise in the engineering, we look for the highway and fire for expertise in their venue, administrative.

MR. SCHLESINGER: It's in the record, fine.

MR. ARGENIO: I made a statement about the special use permit approval.

MR. SCHLESINGER: You want a motion?

MR. ARGENIO: Yes and a second if somebody would.

MR. SCHLESINGER: That we give special use permit approval.

MR. ARGENIO: That we accept, we're going to do the statement first and the statement is that the proposed structures, equipment or material are readily accessible for fire and police protection and that the proposed use and layout are in harmony with the orderly development of the zoning district and will not have a detrimental effect on the adjacent properties.

MR. SCHLESINGER: So moved.

MR. BROWN: Second it.

MR. ARGENIO: If there's no further discussion, roll call.

ROLL CALL

MR. SCHLESINGER AYE
MR. BROWN AYE
MR. MINUTA AYE
MR. GALLAGHER AYE
MR. ARGENIO AYE

MR. ARGENIO: I will entertain a motion that we grant the special permit for the Piaria site plan.

MR. SCHLESINGER: Make a motion that we approve the special permit for the Piaria site plan.

MR. BROWN: Second it.

MR. ARGENIO: Motion has been made and seconded that we grant the special use permit for the Piaria site plan on Silver Stream Road. If there's no further discussion from the board members, roll call.

ROLL CALL

MR. SCHLESINGER AYE
MR. BROWN AYE
MR. MINUTA NO
MR. GALLAGHER AYE
MR. ARGENIO AYE

MR. ARGENIO: There's a couple of very minor plan issues which I will read in unless does somebody else have anything?

MR. MINUTA: I have nothing further.

MR. GALLAGHER: Just real quick, lighting, is there lighting on the outside wall packs?

MR. SHAW: We have, there's a drawing included in the plan where we have the lighting design and foot candle values and there's no bleed over to the residential properties.

MR. GALLAGHER: Nothing else.

MR. ARGENIO: Mark, is there anything I'm missing here procedurally? There's a bit to go through here and we had quite an informative discussion on it.

MR. EDSALL: No, there's just the two minor corrections noted under comment 4 and then the, I have listed a couple of conditions on 6, that's it.

MR. ARGENIO: I will read the subject-tos if nobody has anything further, entertain a motion for final.

MR. SCHLESINGER: I'll make a notion for final approval of the Piaria site plan.

MR. GALLAGHER: Second it.

MR. ARGENIO: Motion has been made and seconded that

the New Windsor Planning Board grant final approval to the Piaria Inc. site plan on Silver Stream Road subject to Mark's engineering comments and number 4 some striping issue and the project number on the boxes and subject to Mark's number 6 correction of plan noted by the engineer for the planning board are completed on the plan submitted for stamp for approval and the applicant submit a bond estimate and the planning board secretary be directed to return local action form for this approval to the Orange County Department of Planning and obviously last but not least all fees are paid. If there's no further discussion from the board members, roll call.

ROLL CALL

| | |
|---|---|
| MR. SCHLESINGER | AYE |
| MR. BROWN | AYE |
| MR. MINUTA | NO |
| MR. GALLAGHER | AYE |
| MR. ARGENIO | AYE |

MR. ARGENIO: We're going to take a couple minutes, 1 1/2 minutes, maybe 3 on the outside.

(Whereupon, a brief recess was taken.)

PUBLIC_HEARINGS:

PIARIA_SITE_PLAN_(05-27)

Mr. Gregory Shaw of Shaw Engineering appeared before the board for this proposal.

MR. PETRO: Piaria site plan, Silver Stream Road, proposed construction of 9,800 square foot building along with a 5,180 square foot truck canopy and 22 parking spaces. I'm losing my voice, folks, so bear with me, please, if you can't hear me, just yell and I'll try to talk louder. The application proposes construction of 9,800 square foot structure with 5,180 square foot canopy with associated site improvements. The plan was previously reviewed at 28 September, 2005 meeting. The application is before the board for a public hearing. It's in a PI zone district of the Town, plan indicates that proposed use is special permit, the site easily complies with the minimum requirements and is adequate, parking based on the parking calculation on the plan. Okay, Greg, tell us what you're doing.

MR. SHAW: Thank you, Mr. Chairman. As we mentioned, the project is on Silver Stream Road north of Route 207, our project is situated where it butts up to the Thruway to the rear of the property and across from the property is a wooded area of Stewart Airport. Silver Stream Road as you're aware is kind of a mixed area, it's a Planned Industrial Zone, there are industries on Silver Stream Road, there are also some residences on Silver Stream Road. The parcel area is 4.2 acres which far exceeds the minimum 40,000 square foot that we're required to provide for this particular lot. We're proposing to install a 9,800 square foot industrial building for a steel fabricating facility along with that a 500 square foot office and a truck canopy of about 5,180 square feet. Parking for this site will total 42 parking spaces, the facility will have a total

of five employees. Steel fabrication is different today than what it was years ago, it's now done by computers and robotics, not with welders and by a gentleman behind a keyboard with steel moving up and down an assembly line and that's how the steel is fabricated. The parcel will be serviced by the Town of New Windsor sanitary sewer system and also the Town's water system in accordance with the Town Code, the building will be sprinklered. We'll be disturbing over one acre of land with respect to this parcel so we'll be obligated to obtain a SPEDES permit. You'll notice with the design of the storm drainage system we have complied with the provisions of the DEC, not only are we detaining storm water flows up to 100 years but are also incorporating a storm water sand filter, the filter to filter and treat the storm water before we discharge back into the road side drainage swale where the water is presently flowing. That's a brief overview, Mr. Chairman.

MR. PETRO: Did you do a full SWPPP on this?

MR. SHAW: Have you done one? No, not yet.

MR. PETRO: Mark, this was sent to Orange County Planning Department back in August, we don't have anything back from them that you're aware of?

MR. EDSALL: I wasn't sure of the date of the referral to be honest with you.

MR. PETRO: 8/22/05.

MR. EDSALL: Was that the circulation for lead agency?

MR. PETRO: No, we took lead agency 8/22/05.

MR. EDSALL: No, I'm not sure, we'd have to check with Ray to see when specifically the referral went over, I'm not aware of any response at this time.

MR. PETRO: We took lead agency on 9/20/05, okay, so we'll look into that then, right, see what's going on.

MR. EDSALL: Yeah, we'll need that prior to stamp of approval, obviously.

MR. PETRO: Any comments before we open it up to the public?

MR. ARGENIO: There was an issue about the slope on the driveway, Mr. Shaw, have you addressed that and if you have, how have you addressed that?

MR. SHAW: Yes, I have, I have flattened that out, I have also flattened out some of the parking spaces and I even relocated some of the parking spaces out of those areas that may have been in question.

MR. ARGENIO: What's the slope of the entrance drive?

MR. SHAW: Don't know, he'd have to put a scale to it.

MR. EDSALL: I don't believe that's changed that much from the original plan, I know Greg and I were discussing it.

MR. SHAW: It has flattened out.

MR. ARGENIO: There was an issue.

MR. EDSALL: There was and I asked him to try to maximize the areas in the parking lot where he could drop the slope down as close to 5 as possible, that's what we really were working on.

MR. ARGENIO: Do we need 5?

MR. EDSALL: We don't have to have 5 but I asked him to give his best effort and he was able to flatten it out

a bit.

MR. PETRO: Let's open it up to the public. On the 23rd day of November, 2005, 17 addressed envelopes went out with the notice of public hearing. Someone is here, would like to speak for or against, just make comment on the application, be recognized by the chair, come forward, state your name and address and your concerns. Is there anyone here? Yes, sir?

MR. REINHOLD: Keith Reinhold, right next to the property. I can think of a lot of concerns, namely the environmental form, you filled out the short form, there's, I have a copy here, several questions on there which I feel have been answered no when they should have been yes. One of them is impact to the neighborhood, they said no, he said, Mr. Shaw said that Silver Stream Road is a mixed area, there's four businesses that I know of on the street, right on the entrance to the street is the hydraulic company has very little impact on most of the people that live on the road, at the other side is the Verizon telephone building, we never see any activity there, there's a car repossession business next to the hydraulic company, they just park cars there and the end of the road is a storage facility which I guess there's some traffic up and down the street, this is a major escalation putting this right in the middle of the street, this is going to go between two houses, mine, actually, there's property behind mine which is the house next door that also abuts it so it's going to affect three people immediately.

MR. PETRO: Show me where you live on the map.

MR. REINHOLD: I live right here next to this pond, this is our land, the house is here, there's a house here and then this land wraps around, it belongs to this house here which abuts it as well, so I don't feel that it is correct to say no when you know the question

on here will it affect the quality or the community character, sure it will, you can't say no to that. The other one is traffic, okay, he said only five employees which is good news but anybody who lives on the street, I don't know how many people here live on the street but trying to get out of the street anywhere from 3 to 7, 6, 7 in the evening is very difficult so I'm not sure how many trucks we're talking about with the truck canopy or what kind of traffic but it's only going to make it worse.

MR. PETRO: You just described every street in Orange County, you realize that?

MR. REINHOLD: But Silver Stream Road if you're familiar is just off the Thruway overpass which is right by the intersection of 207 and Union Avenue, it's very difficult, cars turn right coming off Union Avenue and it's a never ending stream if you want to get out of the road to turn left is very difficult, lot of times you have to turn right, go into the parking lot at My Place or one of those and then turn cause otherwise you can't get out. But what I am getting at here is we talked to an attorney just to see what a, Jacobowitz, and he informed us really on a project like this you should do the full environmental form because it's more than just saying no to a few questions that won't impact things, it surely will, it's going to affect, what about the length of time to build this and erosion and there's a lot of things to consider which is what this long environmental form is designed to do.

MR. PETRO: You're not doing erosion control plan, are you?

MR. SHAW: If the erosion control plan is complete and is part of the drawings, Mr. Chairman.

MR. PETRO: This is PI zone?

MR. SHAW: Correct.

MR. PETRO: Planned industrial?

MR. SHAW: Planned industrial.

MR. REINHOLD: It's a 4 acre lot in the middle of the neighborhood with a factory, I think that has an environmental impact, I think it merits more than just this simple answering no to all the questions.

MR. PETRO: How did the house get built in a PI zone?

MR. BABCOCK: Pre-existing.

MR. REINHOLD: Oldest house on the street was built in the '50s, my question is how did a street with houses get zoned PI, that's my question. I have no idea but there's I believe 11 residences on the street and there's only four businesses and like I said they're at either end of the road so it's a major change to the street no question about it.

MR. PETRO: That's good information.

MR. REINHOLD: So I really feel at least that long form should be done so that the board can have some better information and determine if you're going to allow this special use.

MR. PETRO: Mark, how would you answer that?

MR. EDSALL: Which?

MR. PETRO: About the long form.

MR. EDSALL: It's an option the board has when you have a number of questions raised at the public hearing a lot of times to get more information you may feel that a long form would provide that information in a written

form as far as it being a Type I action or something that would demand a full EAF, it doesn't, it's discretionary at the board's decision. So if you want more information that's a way to get it, if you believe you have enough information from the input from the public and from viewing the plan then you can work off the short form, it's purely your choice.

MR. PETRO: Other than the traffic, what did you feel the impact was?

MR. REINHOLD: Well, it's basically a residential street and now we're putting in a business right in the middle.

MR. PETRO: You're saying it's a residential street and maybe in reality it feels that way because you have 11 residents you said and four businesses.

MR. REINHOLD: There's 11 I guess actually 12 residences, there's 11 houses.

MR. PETRO: Point I'm making when we look at the map and first thing I ask and always ask is what's the zone, it's a permitted use in the zone, it's a PI zone, so you say it's basically residential, that's not what the law is saying, it's a PI zone, he's complying with the law, the houses are not complying with the law even though you're pre-existing.

MR. REINHOLD: But it does require a special use permit and your determination whether you're going to permit to that use and so you need to have as much information as possible to make that decision.

MR. PETRO: Won't argue that point, you're correct.

MR. REINHOLD: I don't think you can do that when whoever filled out the form says no to every impact possible on the form. I think there's a lot more to it

than that and it says right on the long form it's designed to help you make that decision by having all the pertinent information that's available.

MR. PETRO: I agree with what you're saying, I can just I'm envisioning going through, okay, Mr. Shaw we heard the people speak tonight, let's say there's four or five going to say the same thing now we want a long form, I can see at the end of the long form nothing is going to change except they're going to still build that there, you're still going to have the same traffic, it's a permitted use in the zone, I think if we do the best job that we can do because nothing is going to change, what are we going to change?

MR. REINHOLD: I don't know but I don't think you have that information to make that decision, what if they wanted to build something ridiculous there, how would you, what if there's going to be trucks coming up and down the street at 3 in the morning?

MR. PETRO: Well, he'd have to give us that information. Right now he's saying the traffic is five employees, what other type of traffic?

MR. SHAW: What other type of traffic?

MR. PETRO: Yes.

MR. SHAW: Hours of operation would be from 8 to 5, five days a week, maybe six, so for the record I'd have to say six days a week not seven and the hours would stop at 5 o'clock.

MR. ARGENIO: How many trucks a day typically?

MR. SHAW: Excuse me, let me ask my client. Two.

MR. REINHOLD: What kind of trucks?

MR. PETRO: Well, again, though Greg we have to, you have to be fair to the people too because that's just this particular owner at the particular time, he can build this and sell it in three months and whatever, whoever in the PI zone has something that has 30 trucks a day, it's not nice that he's telling us it's two trucks but you have to look at all options.

MR. SHAW: But again it's not a really big facility, if I was given 30,000 square foot steel fabricating facility you look at it and say there's a lot of potential to pump out a lot of steel, it's not a very big building.

MR. REINHOLD: Well, the questions are all on the long form what kind of vehicle traffic, that stuff's all on there. Noise levels, what kind of noise is this going to have?

MR. PETRO: How difficult is it to fill out the long form?

MR. SHAW: It's not that difficult to fill it out, I would have to question whether if you go through the exercise of filling it out whether that would be satisfactory once that's reviewed but if the board wants it filled out I'll fill it out.

MR. PETRO: I want to hear more then.

MR. REINHOLD: The other thing is that pond, how big is that? It's hard to tell the scale of that looks pretty big, that's right on my property line, you know, mosquitoes, what are we going to have with this pond?

MR. ARGENIO: It's a big issue that's global and not only the Town of New Windsor, every other town in Orange County, I'll take it to the next level, every other county in New York State, it's something that's mandated and again, I've heard Mark and the chairman

enunciate this a dozen times, it's mandated by the Federal government, it's retention of the first and Mark jump in if I misspeak, it's retention of the first inch of runoff for a 24 hour period and the way they do it is with ponds and it's certainly, certainly an issue, it's an issue that we have wrestled with as a planning board for as long as I've been sitting here.

MR. PETRO: I'm a hundred percent against it, nothing we can do about it.

MR. ARGENIO: The things that we've done in the past is we have compelled owners to put bushes and stuff around them, shrubberies, fences, different things to eliminate the eyesore, but if you're going to ask about the mosquitoes, I don't know what the answer is.

MR. REINHOLD: Now we're talking West Nile virus and now you're going to put this right next to my house, I read in the minutes there's an alternate way to deal with the runoff.

MR. PETRO: What's that?

MR. REINHOLD: An underground system he mentioned but he said it was cost prohibitive.

MR. PETRO: I usually don't allow them because they don't work. They only work in my opinion for a certain period of time.

MR. ARGENIO: How do you clean it?

MR. REINHOLD: I gathered from the minutes there's an alternative way to deal with it, other than having a big pond.

MR. PETRO: It's a real bad idea, that's worse than the ponds, don't know if you own any properties or buildings but have you ever tried to get anybody to

change a filter in your ceiling that costs about 80 cents? Can you imagine having somebody clean out an underground system under your parking lot?

MR. REINHOLD: What should be done and what people are willing to do are two different things. There's a lot of things we don't like to do, I don't like to change the oil on my car as often as I should.

MR. PETRO: It will never happen, it's like writing a lease with somebody, here's your lease. You know what that lease means? Nothing. Anyway, okay, we're off the subject. I think the pond I can't do anything about, state mandated, it's there now, the Town if you call the Town there's a bug problem, correct me, Mike, the Town will look into any problems because they're going all over Town, these ponds and the Town will investigate it and do what they can about the bugs and mosquitoes but that's the location, correct?

MR. SHAW: Correct.

MR. REINHOLD: The other thing was you have a truck canopy with no access other than through the building, that seems to be a bad idea to build something like that if as you mentioned what if it's sold to someone else, it doesn't seem like a very good design, it's going to be sitting there.

MR. ARGENIO: What's the idea with that, Greg, that's a bit of an odd thing?

MR. SHAW: It's my client's preference to have the trucks brought through the building and to store them within that canopy, sometimes maybe they'll have steel on them, raw steel that are brought to the site and then have the steel brought into the building, have it fabricated, have the trucks emptied, brought back under the canopy and when they're ready to be shipped out have the trucks brought into the building again and to

have the steel placed on stop of the trucks and have them taken out through the front and to the point of ultimate disposition.

MR. REINHOLD: Aren't you doing it that way because of the size of the lot? It's not that that's a better way to do it, it's that the lot isn't really big enough.

MR. SHAW: Sir, I can only tell you what my clients asked me to do.

MR. REINHOLD: You're trying to fit the building onto the lot.

MR. SHAW: I have no response to that.

MR. REINHOLD: Okay.

MR. PETRO: Okay, the retaining wall in the back, how high is that retaining wall? Just happened to notice it, there's going to be a fence on the top? What's the height?

MR. SHAW: Going to be five feet high.

MR. PETRO: What do you have on the top of it?

MR. SHAW: Just dirt.

MR. PETRO: We'll get back to it after the public hearing. Anything else?

MR. REINHOLD: Another question was are they tractor trailers, are they what kind of trucks?

MR. SHAW: They're short length trucks exclusive of the cab probably about 25 feet in length.

MR. REINHOLD: Cause I'm just wondering how they make the turn that's it's not a very wide road.

MR. PETRO: We looked at that before, we had a grading problem there also that's been worked out.

MR. REINHOLD: And I think the road, you know, is not really suited for too much truck traffic but I guess that's the Town's problem.

MR. PETRO: I think the road not being suitable for tractor trailers is probably a good thing in the future.

MR. REINHOLD: Probably is.

MR. PETRO: Probably preclude them from anybody with that type of business from looking at the site or trying to go in the site. One thing you said about the retention pond I agree a hundred percent but there's just when you get a state mandate and you're told what to do it frustrates me up here especially cause, you know, they're all over Town.

MR. REINHOLD: I understand I'm really I think though you cannot simply answer no to these questions and not do a long form.

MR. PETRO: I didn't say no yet but I want to see what somebody else says.

MR. REINHOLD: I'll sit down.

MR. PETRO: More support to your comments.

MR. REINHOLD: All right, thanks.

MR. PETRO: Thank you. Yes, sir?

MR. PALAZZO: My name is Chet Palazzo, I live across the street diagonal to this. What's going to be built?

MR. PETRO: I know where you live.

MR. PALAZZO: I understand it's zoned PI, my only question is steel fabricating plant, there are going to be steel trucks, steel trucks are not light, they're heavy, that road's not built for the weight, it's a glorified tar and chip, it's not blacktop, it's not going to stand up to truck traffic, there's no drainage, it floods now where it rains I understand it's going to go into the pond but it's going into a drainage ditch, there's no catch basins, no underground drainage.

MR. PETRO: Retention pond, correct?

MR. SHAW: Yes.

MR. PETRO: Basically the water's going to be let out the same rate it's on the property.

MR. PALAZZO: That road wasn't built for truck traffic, if they want to put up a bond for the road to fix the road when it gets tore up that would be an option.

MR. PETRO: It's a Town road, correct, so the Town would have to maintain the road.

MR. PALAZZO: Right, but five years down the road I mean I don't know if you remember when Fellicello's (phonetic) hauling sand up to the dump that turned into a dirt road, Bob Pissacano (phonetic) had to go to the County to get it repaved, the potholes were this deep, that's what truck traffic is going to do to the road. That's the only complaint, basically everything else if he's complying to all the laws there's not really nothing we can do except for the truck traffic, we've got young kids, every one of the families who live right around have young kids with all the truck traffic going up and down there.

MR. ARGENIO: Chet, is your house directly across?

MR. PALAZZO: It's diagonal.

MR. ARGENIO: Toward 27 or away?

MR. PALAZZO: Towards 207. Hours of operation?

MR. PETRO: What were they?

MR. SHAW: Eight to five six days a week, maximum.

MR. PALAZZO: Did he tell you how many trucks?

MR. PETRO: He can sell it in a week and be a different business doing 30 trucks so you have to look at all aspects.

MR. PALAZZO: They're going to deliver bulk steel on straight trucks, bulk steel is delivered on tractor trailers, you don't make money hauling 20 ton when you can haul 40 ton, he's hauling bulk in, its cheaper to haul it in on a tractor trailer than it is on a straight truck, you can't pull out on the road with a tractor trailer.

MR. PETRO: He has every right to the road as everybody else, I can't do anything about it.

MR. PALAZZO: Where you guys, the Town is going to have to pay for the road when the road gets broke up.

MR. PETRO: Probably, yes.

MR. PALAZZO: Okay, I mean, I think there should be more like the long form environmental study should be done a little bit further.

MR. PETRO: We're not ruling that out.

MR. PALAZZO: It's not really a place for that type of factory in between three or four or five houses, residents right there, there's other places in the Town, I understand it's zoned PI but I don't think it's the right place.

MR. PETRO: You're saying logically it's not the right place, the law is saying that's where it goes there.

MR. PALAZZO: I know that's what I just said.

MR. PETRO: That's why we're looking at it.

MR. PALAZZO: Thank you.

MR. PETRO: Yes?

MS. PALAZZO: I'm Debbie Palazzo. My question is the width of the road, I'm at home, I see the cars that are coming up, they're all residential cars, there are cars that come along, trucks that pull up our road, not knowing it's a dead-end road, they can't turn around, school buses have trouble turning around in this exact spot every day we have some sort of grid lock situation with residential vehicles, I don't see how a fire truck is going to make a turn there when we have an emergency, problems on the road which we've had there's been complete grid lock, cars can't get by, they can't turn with the ditches on either side, it just drops off. I don't see how any type of larger vehicle, I mean, I don't know feet wise but the road just doesn't seem big enough.

MR. PETRO: I have fire approval on 12/14/05 previously noted plan reviewed as of 12/14/05 problems worked out with fire inspector, I have to go by this here.

MR. BABCOCK: How about highway, Mr. Chairman, do you have anything?

MR. PETRO: Highway's under review so the Highway has not approved, I have the, he's still looking at it. Anyone else on this subject? Motion to close.

MR. ARGENIO: I'll make the motion to close the public hearing.

MR. GALLAGHER: Second it.

MR. PETRO: Motion has been made and seconded that the New Windsor Planning Board close the Piaria site plan public hearing on Silver Stream Road. Any further discussion from the board members? If not, roll call.

ROLL CALL

| | |
|---|---|
| MR. MINUTA | AYE |
| MR. MASON | AYE |
| MR. GALLAGHER | AYE |
| MR. ARGENIO | AYE |
| MR. PETRO | AYE |

MR. PETRO: At this time, I'll open it back up to the board for any further comment. Greg, you have to do the SWPPP.

MR. SHAW: Yes.

MR. PETRO: And that's the storm water discharge from the quality basin.

MR. SHAW: Yes.

MR. PETRO: We have to hear back from Orange County Planning, Highway, and I'm going to poll the board, what do you think about the full environmental being it's a PI zone right in the center of a lot of homes, I mean, I grew up there, he's telling the truth, it's all houses except for Stillwagon on the corner, you can't even count the phone place, it's really on 207. Any

comment?

MR. MASON: I think it probably would be worth looking into, Mr. Chairman.

MR. GALLAGHER: I agree if there's residential surrounding it.

MR. MINUTA: I'm in agreement with the full EAF.

MR. ARGENIO: I think that Chet Palazzo represented it pretty well, unfortunately, every zone ends somewhere and I agree, I think we should examine it a bit and Jim it may have not affect the final outcome but at the very least it's been examined.

MR. PETRO: Yes, Greg, where are you, so you hear the temperament of the board, let's look for a full environmental impact statement.

MR. EDSALL: Full environmental assessment form.

MR. PETRO: Correct and we'll look at it.

MR. ARGENIO: And the main thing is the traffic, Jim, that's the flavor I'm hearing from everybody, at least that's my issue. I know Chet and Debbie have a young son and I'm sure some of these other people have young children, that's my issues relegated to that.

MR. PETRO: I think that this, if I can just, is not going to be a major problem but I think that we're going to be granting this approval to a piece of property not to that man. Follow my point? Same as the zoning variance, doesn't go to the owner, goes to the section, block and lot number. He can sell it in two months and somebody is going to come in with tractor trailers, 40 trucks a day, we don't know that. So let's take a good look at it. I understand the pond has to go there if it's something we can't do anything

about we can't do anything about it.

MR. SHAW: We'd love to eliminate it but we can't.

MR. PETRO: I'd love for you to eliminate it so let's do the full EAF and go from there. Okay?

MR. EDSALL: Can you acknowledge being this is a special permit use and you're proposing specific hours, could you just add those hours in on a note, just verify with your clients, add the hours of operation on the plan?

MR. SHAW: Absolutely.

MR. PETRO: Greg, after the EAF is complete what we're going to do in the meantime I'd like to hear back from the Highway Department also.

MR. SHAW: Okay, so we're really waiting for the Highway Department and the County and the EAF.

MR. PETRO: Correct.

MR. SHAW: Also I have to prepare the SWPPP.

MR. PETRO: And the fire department, are they aware that the only access to that canopy is through the building?

MR. SHAW: Yes, absolutely, I sat with Bob Rogers myself.

MR. EDSALL: John McDonald.

MR. SHAW: And made every change.

MR. PETRO: Bobby Rogers doesn't work here so it must be somebody else.

MR. SHAW: I'm sorry, we even put passage doors on the sides of the building for fire access into that building.

MR. PETRO: Retaining wall in the back needs a cap, a wall.

MR. SHAW: Yes, I'll provide that.

MR. ARGENIO: Or fence.

MR. PETRO: Fence.

MR. SHAW: I'll take care of that.

MR. PETRO: Thank you.

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 07/21/2006 PAGE: 1

LISTING OF PLANNING BOARD **FEES**
**APPROVAL**

FOR PROJECT NUMBER: 5-27
NAME: PIARIA INC. PA2005-662
APPLICANT: PIARIA INC.

| --DATE-- | DESCRIPTION--------- | TRANS | --AMT-CHG | -AMT-PAID | --BAL-DUE |
|---|---|---|---|---|---|
| / / | | CHG | 0.00 | | |
| / / | | PAID | | 0.00 | |
| 06/08/0605 | SITE PLAN APPROVAL FEE | CHG | 125.00 | | |
| 07/20/2006 | REC. CK. #1010 | PAID | | 125.00 | |
| | | TOTAL: | 125.00 | 125.00 | 0.00 |

*617.20*
*Appendix A*
*State Environmental Quality Review*
# FULL ENVIRONMENTAL ASSESSMENT FORM

**Purpose:** The full EAF is designed to help applicants and agencies determine, in an orderly manner, whether a project or action may be significant. The question of whether an action may be significant is not always easy to answer. Frequently, there are aspects of a project that are subjective or unmeasurable. It is also understood that those who determine significance may have little or no formal knowledge of the environment or may not be technically expert in environmental analysis. In addition, many who have knowledge in one particular area may not be aware of the broader concerns affecting the question of significance.

The full EAF is intended to provide a method whereby applicants and agencies can be assured that the determination process has been orderly, comprehensive in nature, yet flexible enough to allow introduction of information to fit a project or action.

**Full EAF Components:** The full EAF is comprised of three parts:

**Part 1:** Provides objective data and information about a given project and its site. By identifying basic project data, it assists a reviewer in the analysis that takes place in Parts 2 and 3.

**Part 2:** Focuses on identifying the range of possible impacts that may occur from a project or action. It provides guidance as to whether an impact is likely to be considered small to moderate or whether it is a potentially-large impact. The form also identifies whether an impact can be mitigated or reduced.

**Part 3:** If any impact in Part 2 is identified as potentially-large, then Part 3 is used to evaluate whether or not the impact is actually important.

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## THIS AREA FOR LEAD AGENCY USE ONLY

## DETERMINATION OF SIGNIFICANCE -- Type 1 and Unlisted Actions

**Identify the Portions of EAF completed for this project:** ☑ Part 1 ☐ Part 2 ☐ Part 3

Upon review of the information recorded on this EAF (Parts 1 and 2 and 3 if appropriate), and any other supporting information, and considering both the magnitude and importance of each impact, it is reasonably determined by the lead agency that:

☐ A. The project will not result in any large and important impact(s) and, therefore, is one which **will not** have a significant impact on the environment, therefore **a negative declaration will be prepared.**

☐ B. Although the project could have a significant effect on the environment, there will not be a significant effect for this Unlisted Action because the mitigation measures described in PART 3 have been required, therefore **a CONDITIONED negative declaration will be prepared.***

☐ C. The project may result in one or more large and important impacts that may have a significant impact on the environment, therefore **a positive declaration will be prepared.**

*A Conditioned Negative Declaration is only valid for Unlisted Actions

New Steel Fabricating Building for Piaria, Inc.

Name of Action

Town of New Windsor Planning Board

Name of Lead Agency

| Genaro Argenio | Chairman |
|---|---|
| Print or Type Name of Responsible Officer in Lead Agency | Title of Responsible Officer |
| Signature of Responsible Officer in Lead Agency | Signature of Preparer (if different from responsible officer) |

website

Date

## PART 1--PROJECT INFORMATION
### Prepared by Project Sponsor

NOTICE: This document is designed to assist in determining whether the action proposed may have a significant effect on the environment. Please complete the entire form, Parts A through E. Answers to these questions will be considered as part of the application for approval and may be subject to further verification and public review. Provide any additional information you believe will be needed to complete Parts 2 and 3.

It is expected that completion of the full EAF will be dependent on information currently available and will not involve new studies, research or investigation. If information requiring such additional work is unavailable, so indicate and specify each instance.

Name of Action New Steel Fabricating Building for Piaria Inc.

Location of Action (include Street Address, Municipality and County)

Subject parcel is located on the eastern side of Silver Stream Road, 1,500 feet north of NYS 207.

Name of Applicant/Sponsor Piaria, Inc.

Address 36-25 23rd Street

City / PO Astoria State NY Zip Code 11106

Business Telephone (718) 710 - 7574

Name of Owner (if different)

Address

City / PO State Zip Code

Business Telephone

Description of Action:

The development of a 4.28 acre parcel of land for a new steel fabrication facility including a site entrance, parking areas, and storm water management facilities.

**Please Complete Each Question--Indicate N.A. if not applicable**

## A. SITE DESCRIPTION

Physical setting of overall project, both developed and undeveloped areas.

1. Present Land Use: ☐ Urban ☑ Industrial ☐ Commercial ☐ Residential (suburban) ☐ Rural (non-farm)
   ☐ Forest ☐ Agriculture ☑ Other Airport buffer area.

2. Total acreage of project area: 4.28 acres.

| APPROXIMATE ACREAGE | PRESENTLY | AFTER COMPLETION |
|---|---|---|
| Meadow or Brushland (Non-agricultural) | _____ acres | _____ acres |
| Forested | 4.28 acres | 1.74 acres |
| Agricultural (Includes orchards, cropland, pasture, etc.) | _____ acres | _____ acres |
| Wetland (Freshwater or tidal as per Articles 24,25 of ECL) | _____ acres | _____ acres |
| Water Surface Area | _____ acres | _____ acres |
| Unvegetated (Rock, earth or fill) | _____ acres | _____ acres |
| Roads, buildings and other paved surfaces | _____ acres | .79 acres |
| Other (Indicate type) _____ | _____ acres | 1.75 acres |

3. What is predominant soil type(s) on project site?
   a. Soil drainage: ☐ Well drained _____% of site ☑ Moderately well drained 100 % of site.
   ☐ Poorly drained _____% of site
   b. If any agricultural land is involved, how many acres of soil are classified within soil group 1 through 4 of the NYS Land Classification System? _____ acres (see 1 NYCRR 370).

4. Are there bedrock outcroppings on project site? ☐ Yes ☑ No
   a. What is depth to bedrock unknown (in feet)

5. Approximate percentage of proposed project site with slopes:
   ☑ 0-10% 40 % ☑ 10- 15% 50 % ☑ 15% or greater 10 %

6. Is project substantially contiguous to, or contain a building, site, or district, listed on the State or National Registers of Historic Places? ☐ Yes ☑ No

7. Is project substantially contiguous to a site listed on the Register of National Natural Landmarks? ☐ Yes ☑ No

8. What is the depth of the water table? unknown (in feet)

9. Is site located over a primary, principal, or sole source aquifer? ☐ Yes ☑ No

10. Do hunting, fishing or shell fishing opportunities presently exist in the project area? ☐ Yes ☑ No

11. Does project site contain any species of plant or animal life that is identified as threatened or endangered? ☐ Yes ☒ No

According to:

Field observations.

Identify each species:

12. Are there any unique or unusual land forms on the project site? (i.e., diffs, dunes, other geological formations?

☐ Yes ☒ No

Describe:

13. Is the project site presently used by the community or neighborhood as an open space or recreation area?

☐ Yes ☒ No

If yes, explain:

14. Does the present site include scenic views known to be important to the community? ☐ Yes ☒ No

15. Streams within or contiguous to project area:

Silver Stream approximately 1,500 feet south of the project site.

a. Name of Stream and name of River to which it is tributary

Silver Stream is tributary to the Hudson River.

16. Lakes, ponds, wetland areas within or contiguous to project area:

b. Size (in acres):

17. Is the site served by existing public utilities? ☒ Yes ☐ No

a. If **YES**, does sufficient capacity exist to allow connection? ☒ Yes ☐ No

b. If **YES**, will improvements be necessary to allow connection? ☐ Yes ☒ No

18. Is the site located in an agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☒ No

19. Is the site located in or substantially contiguous to a Critical Environmental Area designated pursuant to Article 8 of the ECL, and 6 NYCRR 617? ☐ Yes ☒ No

20. Has the site ever been used for the disposal of solid or hazardous wastes? ☐ Yes ☒ No

**B. Project Description**

1. *Physical dimensions and scale of project (fill in dimensions as appropriate).*

a. Total contiguous acreage owned or controlled by project sponsor: 4.28 acres.

b. Project acreage to be developed: 2.54 acres initially; 2.54 acres ultimately.

c. Project acreage to remain undeveloped: 1.74 acres.

d. Length of project, in miles: _____ (if appropriate)

e. If the project is an expansion, indicate percent of expansion proposed. _____ %

f. Number of off-street parking spaces existing 0 ; proposed 22

g. Maximum vehicular trips generated per hour: 6 (upon completion of project)?

h. If residential: Number and type of housing units:

| | One Family | Two Family | Multiple Family | Condominium |
|---|---|---|---|---|
| Initially | | | | |
| Ultimately | | | | |

i. Dimensions (in feet) of largest proposed structure: 35.0 height; 70.0 width; 214.0 length.

j. Linear feet of frontage along a public thoroughfare project will occupy is? 408.0 ft.

2. How much natural material (i.e. rock, earth, etc.) will be removed from the site? 25,000 ~~tons~~/cubic yards.

3. Will disturbed areas be reclaimed ☒ Yes ☐ No ☐ N/A

a. If yes, for what intended purpose is the site being reclaimed?

Lawns and Landscaping.

b. Will topsoil be stockpiled for reclamation? ☒ Yes ☐ No

c. Will upper subsoil be stockpiled for reclamation? ☒ Yes ☐ No

4. How many acres of vegetation (trees, shrubs, ground covers) will be removed from site? 2.54 acres.

5. Will any mature forest (over 100 years old) or other locally-important vegetation be removed by this project?

☐ Yes ☒ No

6. If single phase project: Anticipated period of construction: 12 months, (including demolition)

7. If multi-phased:

   a. Total number of phases anticipated _____ (number)

   b. Anticipated date of commencement phase 1: _____ month _____ year, (including demolition)

   c. Approximate completion date of final phase: _____ month _____ year.

   d. Is phase 1 functionally dependent on subsequent phases? ☐ Yes ☐ No

8. Will blasting occur during construction? ☐ Yes ☒ No

9. Number of jobs generated: during construction 6 ; after project is complete 5

10. Number of jobs eliminated by this project 0 .

11. Will project require relocation of any projects or facilities? ☐ Yes ☒ No

    If yes, explain:

12. Is surface liquid waste disposal involved? ☐ Yes ☒ No

    a. If yes, indicate type of waste (sewage, industrial, etc) and amount _____

    b. Name of water body into which effluent will be discharged _____

13. Is subsurface liquid waste disposal involved? ☐ Yes ☒ No Type _____

14. Will surface area of an existing water body increase or decrease by proposal? ☐ Yes ☒ No

    If yes, explain:

15. Is project or any portion of project located in a 100 year flood plain? ☐ Yes ☒ No

16. Will the project generate solid waste? ☒ Yes ☐ No

    a. If yes, what is the amount per month? 0.25 tons

    b. If yes, will an existing solid waste facility be used? ☒ Yes ☐ No

    c. If yes, give name Alliance Landfill ; location Taylor, PA.

    d. Will any wastes not go into a sewage disposal system or into a sanitary landfill? ☐ Yes ☒ No

e. If yes, explain:

17. Will the project involve the disposal of solid waste? ☐ Yes ☒ No

    a. If yes, what is the anticipated rate of disposal? _____ tons/month.

    b. If yes, what is the anticipated site life? _____ years.

18. Will project use herbicides or pesticides? ☐ Yes ☒ No

19. Will project routinely produce odors (more than one hour per day)? ☐ Yes ☒ No

20. Will project produce operating noise exceeding the local ambient noise levels? ☒ Yes ☐ No

21. Will project result in an increase in energy use? ☒ Yes ☐ No

    If yes, indicate type(s)

Electric and Fuel Oil.

22. If water supply is from wells, indicate pumping capacity _____ gallons/minute.

23. Total anticipated water usage per day 250.0 gallons/day.

24. Does project involve Local, State or Federal funding? ☐ Yes ☒ No

    If yes, explain:

25. **Approvals Required:**

| | | | Type | Submittal Date |
|---|---|---|---|---|
| City, Town, Village Board | ☐ Yes | ☒ No | | |
| City, Town, Village Planning Board | ☒ Yes | ☐ No | Site Plan Approval | July 2005 |
| City, Town Zoning Board | ☐ Yes | ☒ No | | |
| City, County Health Department | ☐ Yes | ☒ No | | |
| Other Local Agencies | ☐ Yes | ☒ No | | |
| Other Regional Agencies | ☐ Yes | ☒ No | | |
| State Agencies | ☐ Yes | ☒ No | | |
| Federal Agencies | ☐ Yes | ☒ No | | |

C. **Zoning and Planning Information**

1. Does proposed action involve a planning or zoning decision? ☒ Yes ☐ No

If Yes, indicate decision required:

| | | | |
|---|---|---|---|
| ☐ Zoning amendment | ☐ Zoning variance | ☐ New/revision of master plan | ☐ Subdivision |
| ☒ Site plan | ☒ Special use permit | ☐ Resource management plan | ☐ Other |

2. What is the zoning classification(s) of the site?

PI Zone

3. What is the maximum potential development of the site if developed as permitted by the present zoning?

NA

4. What is the proposed zoning of the site?

NA

5. What is the maximum potential development of the site if developed as permitted by the proposed zoning?

NA

6. Is the proposed action consistent with the recommended uses in adopted local land use plans? ☒ Yes ☐ No

7. What are the predominant land use(s) and zoning classifications within a ¼ mile radius of proposed action?

AP - Airport

R-2 - Open Space Residential

NC - Neighborhood Commercial

C - Design Shopping

OLI - Office and Light Industry

8. Is the proposed action compatible with adjoining/surrounding land uses with a ¼ mile? ☒ Yes ☐ No

9. If the proposed action is the subdivision of land, how many lots are proposed? NA

   a. What is the minimum lot size proposed? NA

10. Will proposed action require any authorization(s) for the formation of sewer or water districts? ☐ Yes ☒ No

11. Will the proposed action create a demand for any community provided services (recreation, education, police, fire protection?

☐ Yes ☒ No

a. If yes, is existing capacity sufficient to handle projected demand? ☐ Yes ☐ No

12. Will the proposed action result in the generation of traffic significantly above present levels? ☐ Yes ☒ No

a. If yes, is the existing road network adequate to handle the additional traffic. ☐ Yes ☐ No

Slight increase in traffic on Silver Stream Road.

**D. Informational Details**

Attach any additional information as may be needed to clarify your project. If there are or may be any adverse impacts associated with your proposal, please discuss such impacts and the measures which you propose to mitigate or avoid them.

**E. Verification**

I certify that the information provided above is true to the best of my knowledge.

Applicant/Sponsor Name Piaria, Inc. Date March 15, 2006

Signature

Title Engineer for Applicant

**If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment.**

# PART 2 - PROJECT IMPACTS AND THEIR MAGNITUDE

**Responsibility of Lead Agency**

**General Information** (Read Carefully)

- In completing the form the reviewer should be guided by the question: Have my responses and determinations been **reasonable?** The reviewer is not expected to be an expert environmental analyst.
- The **Examples** provided are to assist the reviewer by showing types of impacts and wherever possible the threshold of magnitude that would trigger a response in column 2. The examples are generally applicable throughout the State and for most situations. But, for any specific project or site other examples and/or lower thresholds may be appropriate for a Potential Large Impact response, thus requiring evaluation in Part 3.
- The impacts of each project, on each site, in each locality, will vary. Therefore, the examples are illustrative and have been offered as guidance. They do not constitute an exhaustive list of impacts and thresholds to answer each question.
- The number of examples per question does not indicate the importance of each question.
- In identifying impacts, consider long term, short term and cumulative effects.

**Instructions** (Read carefully)

a. Answer each of the 20 questions in PART 2. Answer **Yes** if there will be **any** impact.
b. **Maybe** answers should be considered as **Yes** answers.
c. If answering **Yes** to a question then check the appropriate box(column 1 or 2)to indicate the potential size of the impact. If impact threshold equals or exceeds any example provided, check column 2. If impact will occur but threshold is lower than example, check column 1.
d. Identifying that an Impact will be potentially large (column 2) does not mean that it is also necessarily **significant**. Any large impact must be evaluated in PART 3 to determine significance. Identifying an impact in column 2 simply asks that it be looked at further.
e. If reviewer has doubt about size of the impact then consider the impact as potentially large and proceed to PART 3.
f. If a potentially large impact checked in column 2 can be mitigated by change(s) in the project to a small to moderate impact, also check the **Yes** box in column 3. A **No** response indicates that such a reduction is not possible. This must be explained in Part 3.

| | 1 Small to Moderate Impact | 2 Potential Large Impact | 3 Can Impact Be Mitigated by Project Change |
|---|---|---|---|
| **Impact on Land** | | | |
| 1. Will the Proposed Action result in a physical change to the project site? NO ☐ YES ☒ | | | |
| **Examples** that would apply to column 2 | | | |
| • Any construction on slopes of 15% or greater, (15 foot rise per 100 foot of length), or where the general slopes in the project area exceed 10%. | ☒ | ☐ | ☐ Yes ☐ No |
| • Construction on land where the depth to the water table is less than 3 feet. | ☐ | ☐ | ☐ Yes ☐ No |
| • Construction of paved parking area for 1,000 or more vehicles. | ☐ | ☐ | ☐ Yes ☐ No |
| • Construction on land where bedrock is exposed or generally within 3 feet of existing ground surface. | ☐ | ☐ | ☐ Yes ☐ No |
| • Construction that will continue for more than 1 year or involve more than one phase or stage. | ☐ | ☐ | ☐ Yes ☐ No |
| • Excavation for mining purposes that would remove more than 1,000 tons of natural material (i.e., rock or soil) per year. | ☐ | ☐ | ☐ Yes ☐ No |

| | 1 Small to Moderate Impact | 2 Potential Large Impact | 3 Can Impact Be Mitigated by Project Change |
|---|---|---|---|
| • Construction or expansion of a santary landfill. | ☐ | ☐ | ☐Yes ☐No |
| • Construction in a designated floodway. | ☐ | ☐ | ☐Yes ☐No |
| • Other impacts: | ☐ | ☐ | ☐Yes ☐No |

2. Will there be an effect to any unique or unusual land forms found on the site? (i.e., cliffs, dunes, geological formations, etc.)
☒NO ☐YES

| | | | |
|---|---|---|---|
| • Specific land forms: | ☐ | ☐ | ☐Yes ☐No |

**Impact on Water**

3. Will Proposed Action affect any water body designated as protected? (Under Articles 15, 24, 25 of the Environmental Conservation Law, ECL)
☒NO ☐YES

**Examples** that would apply to column 2

| | | | |
|---|---|---|---|
| • Developable area of site contains a protected water body. | ☐ | ☐ | ☐Yes ☐No |
| • Dredging more than 100 cubic yards of material from channel of a protected stream. | ☐ | ☐ | ☐Yes ☐No |
| • Extension of utility distribution facilities through a protected water body. | ☐ | ☐ | ☐Yes ☐No |
| • Construction in a designated freshwater or tidal wetland. | ☐ | ☐ | ☐Yes ☐No |
| • Other impacts: | ☐ | ☐ | ☐Yes ☐No |

4. Will Proposed Action affect any non-protected existing or new body of water?
☒NO ☐YES

**Examples** that would apply to column 2

| | | | |
|---|---|---|---|
| • A 10% increase or decrease in the surface area of any body of water or more than a 10 acre increase or decrease. | ☐ | ☐ | ☐Yes ☐No |
| • Construction of a body of water that exceeds 10 acres of surface area. | ☐ | ☐ | ☐Yes ☐No |
| • Other impacts: | ☐ | ☐ | ☐Yes ☐No |

| | 1<br>Small to Moderate Impact | 2<br>Potential Large Impact | 3<br>Can Impact Be Mitigated by Project Change |
|---|---|---|---|
| 5. Will Proposed Action affect surface or groundwater quality or quantity?<br>☐ NO ☒ YES | | | |
| **Examples** that would apply to column 2 | | | |
| • Proposed Action will require a discharge permit. | ☒ | ☐ | ☐ Yes ☐ No |
| • Proposed Action requires use of a source of water that does not have approval to serve proposed (project) action. | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action requires water supply from wells with greater than 45 gallons per minute pumping capacity. | ☐ | ☐ | ☐ Yes ☐ No |
| • Construction or operation causing any contamination of a water supply system. | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action will adversely affect groundwater. | ☐ | ☐ | ☐ Yes ☐ No |
| • Liquid effluent will be conveyed off the site to facilities which presently do not exist or have inadequate capacity. | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action would use water in excess of 20,000 gallons per day. | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action will likely cause siltation or other discharge into an existing body of water to the extent that there will be an obvious visual contrast to natural conditions. | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action will require the storage of petroleum or chemical products greater than 1,100 gallons. | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action will allow residential uses in areas without water and/or sewer services. | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action locates commercial and/or industrial uses which may require new or expansion of existing waste treatment and/or storage facilities. | ☐ | ☐ | ☐ Yes ☐ No |
| • Other impacts: | ☐ | ☐ | ☐ Yes ☐ No |

| | 1 Small to Moderate Impact | 2 Potential Large Impact | 3 Can Impact Be Mitigated by Project Change |
|---|---|---|---|

6. Will Proposed Action alter drainage flow or patterns, or surface water runoff?
☐ NO ☒ YES

**Examples** that would apply to column 2

| | | | | |
|---|---|---|---|---|
| • Proposed Action would change flood water flows | ☐ | ☐ | ☐ Yes | ☐ No |
| • Proposed Action may cause substantial erosion. | ☒ | ☐ | ☐ Yes | ☐ No |
| • Proposed Action is incompatible with existing drainage patterns. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Proposed Action will allow development in a designated floodway. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Other impacts: | ☒ | ☐ | ☐ Yes | ☐ No |

Increase in stormwater flows, however, stormwater detention will be provided to mitigate post-development flows.

**IMPACT ON AIR**

7. Will Proposed Action affect air quality?
☒ NO ☐ YES

**Examples** that would apply to column 2

| | | | | |
|---|---|---|---|---|
| • Proposed Action will induce 1,000 or more vehicle trips in any given hour. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Proposed Action will result in the incineration of more than 1 ton of refuse per hour. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Emission rate of total contaminants will exceed 5 lbs. per hour or a heat source producing more than 10 million BTU's per hour. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Proposed Action will allow an increase in the amount of land committed to industrial use. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Proposed Action will allow an increase in the density of industrial development within existing industrial areas. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Other impacts: | ☐ | ☐ | ☐ Yes | ☐ No |

**IMPACT ON PLANTS AND ANIMALS**

8. Will Proposed Action affect any threatened or endangered species?
☒ NO ☐ YES

**Examples** that would apply to column 2

| | | | | |
|---|---|---|---|---|
| • Reduction of one or more species listed on the New York or Federal list, using the site, over or near the site, or found on the site. | ☐ | ☐ | ☐ Yes | ☐ No |

| | 1 Small to Moderate Impact | 2 Potential Large Impact | 3 Can Impact Be Mitigated by Project Change |
|---|---|---|---|
| • Removal of any portion of a critical or significant wildlife habitat. | ☐ | ☐ | ☐ Yes ☐ No |
| • Application of pesticide or herbicide more than twice a year, other than for agricultural purposes. | ☐ | ☐ | ☐ Yes ☐ No |
| • Other impacts: | ☐ | ☐ | ☐ Yes ☐ No |

9. Will Proposed Action substantially affect non-threatened or non-endangered species?
☒ NO ☐ YES

| | | | |
|---|---|---|---|
| **Examples** that would apply to column 2 | | | |
| • Proposed Action would substantially interfere with any resident or migratory fish, shellfish or wildlife species. | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action requires the removal of more than 10 acres of mature forest (over 100 years of age) or other locally important vegetation. | ☐ | ☐ | ☐ Yes ☐ No |
| • Other impacts: | ☐ | ☐ | ☐ Yes ☐ No |

**IMPACT ON AGRICULTURAL LAND RESOURCES**

10. Will Proposed Action affect agricultural land resources?
☒ NO ☐ YES

| | | | |
|---|---|---|---|
| **Examples** that would apply to column 2 | | | |
| • The Proposed Action would sever, cross or limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc.) | ☐ | ☐ | ☐ Yes ☐ No |
| • Construction activity would excavate or compact the soil profile of agricultural land. | ☐ | ☐ | ☐ Yes ☐ No |
| • The Proposed Action would irreversibly convert more than 10 acres of agricultural land or, if located in an Agricultural District, more than 2.5 acres of agricultural land. | ☐ | ☐ | ☐ Yes ☐ No |

| | 1 Small to Moderate Impact | 2 Potential Large Impact | 3 Can Impact Be Mitigated by Project Change |
|---|---|---|---|
| • The Proposed Action would disrupt or prevent installation of agricultural land management systems (e.g., subsurface drain lines, outlet ditches, strip cropping); or create a need for such measures (e.g. cause a farm field to drain poorly due to increased runoff). | ☐ | ☐ | ☐ Yes ☐ No |
| • Other impacts: | ☐ | ☐ | ☐ Yes ☐ No |

**IMPACT ON AESTHETIC RESOURCES**

11. Will Proposed Action affect aesthetic resources? (If necessary, use the Visual EAF Addendum in Section 617.20, Appendix B.)
☒ NO ☐ YES

| **Examples** that would apply to column 2 | | | |
|---|---|---|---|
| • Proposed land uses, or project components obviously different from or in sharp contrast to current surrounding land use patterns, whether man-made or natural. | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed land uses, or project components visible to users of aesthetic resources which will eliminate or significantly reduce their enjoyment of the aesthetic qualities of that resource. | ☐ | ☐ | ☐ Yes ☐ No |
| • Project components that will result in the elimination or significant screening of scenic views known to be important to the area. | ☐ | ☐ | ☐ Yes ☐ No |
| • Other impacts: | ☐ | ☐ | ☐ Yes ☐ No |

**IMPACT ON HISTORIC AND ARCHAEOLOGICAL RESOURCES**

12. Will Proposed Action impact any site or structure of historic, prehistoric or paleontological importance?
☒ NO ☐ YES

| **Examples** that would apply to column 2 | | | |
|---|---|---|---|
| • Proposed Action occurring wholly or partially within or substantially contiguous to any facility or site listed on the State or National Register of historic places. | ☐ | ☐ | ☐ Yes ☐ No |
| • Any impact to an archaeological site or fossil bed located within the project site. | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action will occur in an area designated as sensitive for archaeological sites on the NYS Site Inventory. | ☐ | ☐ | ☐ Yes ☐ No |

| | 1 Small to Moderate Impact | 2 Potential Large Impact | 3 Can Impact Be Mitigated by Project Change |
|---|---|---|---|
| • Other impacts: | ☐ | ☐ | ☐ Yes ☐ No |

**IMPACT ON OPEN SPACE AND RECREATION**

13. Will proposed Action affect the quantity or quality of existing or future open spaces or recreational opportunities?
☒ NO ☐ YES

**Examples** that would apply to column 2

| | | | |
|---|---|---|---|
| • The permanent foreclosure of a future recreational opportunity. | ☐ | ☐ | ☐ Yes ☐ No |
| • A major reduction of an open space important to the community. | ☐ | ☐ | ☐ Yes ☐ No |
| • Other impacts: | ☐ | ☐ | ☐ Yes ☐ No |

**IMPACT ON CRITICAL ENVIRONMENTAL AREAS**

14. Will Proposed Action impact the exceptional or unique characteristics of a critical environmental area (CEA) established pursuant to subdivision 6NYCRR 617.14(g)?
☒ NO ☐ YES

List the environmental characteristics that caused the designation of the CEA.

**Examples** that would apply to column 2

| | | | |
|---|---|---|---|
| • Proposed Action to locate within the CEA? | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action will result in a reduction in the quantity of the resource? | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action will result in a reduction in the quality of the resource? | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action will impact the use, function or enjoyment of the resource? | ☐ | ☐ | ☐ Yes ☐ No |
| • Other impacts: | ☐ | ☐ | ☐ Yes ☐ No |

| | 1 Small to Moderate Impact | 2 Potential Large Impact | 3 Can Impact Be Mitigated by Project Change |
|---|---|---|---|

**IMPACT ON TRANSPORTATION**

15. Will there be an effect to existing transportation systems?
☐ NO ☒ YES

**Examples** that would apply to column 2

- Alteration of present patterns of movement of people and/or goods. ☐ ☐ ☐ Yes ☐ No
- Proposed Action will result in major traffic problems. ☐ ☐ ☐ Yes ☐ No
- Other impacts: ☒ ☐ ☐ Yes ☐ No

Proposed action will slightly increase vehicle trips on Silver Stream Road.

**IMPACT ON ENERGY**

16. Will Proposed Action affect the community's sources of fuel or energy supply?

☒ NO ☐ YES

**Examples** that would apply to column 2

- Proposed Action will cause a greater than 5% increase in the use of any form of energy in the municipality. ☐ ☐ ☐ Yes ☐ No
- Proposed Action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two family residences or to serve a major commercial or industrial use. ☐ ☐ ☐ Yes ☐ No
- Other impacts: ☐ ☐ ☐ Yes ☐ No

**NOISE AND ODOR IMPACT**

17. Will there be objectionable odors, noise, or vibration as a result of the Proposed Action?

☐ NO ☒ YES

**Examples** that would apply to column 2

- Blasting within 1,500 feet of a hospital, school or other sensitive facility. ☐ ☐ ☐ Yes ☐ No
- Odors will occur routinely (more than one hour per day). ☐ ☐ ☐ Yes ☐ No
- Proposed Action will produce operating noise exceeding the local ambient noise levels for noise outside of structures. ☒ ☐ ☐ Yes ☐ No
- Proposed Action will remove natural barriers that would act as a noise screen. ☐ ☐ ☐ Yes ☐ No
- Other impacts: ☐ ☐ ☐ Yes ☐ No

| | 1 Small to Moderate Impact | 2 Potential Large Impact | 3 Can Impact Be Mitigated by Project Change |
|---|---|---|---|

**IMPACT ON PUBLIC HEALTH**

18. Will Proposed Action affect public health and safety?
☒ NO ☐ YES

| | | | | |
|---|---|---|---|---|
| • Proposed Action may cause a risk of explosion or release of hazardous substances (i.e. oil, pesticides, chemicals, radiation, etc.) in the event of accident or upset conditions, or there may be a chronic low level discharge or emission. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Proposed Action may result in the burial of "hazardous wastes" in any form (i.e. toxic, poisonous, highly reactive, radioactive, irritating, infectious, etc.) | ☐ | ☐ | ☐ Yes | ☐ No |
| • Storage facilities for one million or more gallons of liquefied natural gas or other flammable liquids. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Proposed Action may result in the excavation or other disturbance within 2,000 feet of a site used for the disposal of solid or hazardous waste. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Other impacts: | ☐ | ☐ | ☐ Yes | ☐ No |

**IMPACT ON GROWTH AND CHARACTER OF COMMUNITY OR NEIGHBORHOOD**

19. Will Proposed Action affect the character of the existing community?
☒ NO ☐ YES

**Examples** that would apply to column 2

| | | | | |
|---|---|---|---|---|
| • The permanent population of the city, town or village in which the project is located is likely to grow by more than 5%. | ☐ | ☐ | ☐ Yes | ☐ No |
| • The municipal budget for capital expenditures or operating services will increase by more than 5% per year as a result of this project. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Proposed Action will conflict with officially adopted plans or goals. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Proposed Action will cause a change in the density of land use. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Proposed Action will replace or eliminate existing facilities, structures or areas of historic importance to the community. | ☐ | ☐ | ☐ Yes | ☐ No |
| • Development will create a demand for additional community services (e.g. schools, police and fire, etc.) | ☐ | ☐ | ☐ Yes | ☐ No |

| | 1 Small to Moderate Impact | 2 Potential Large Impact | 3 Can Impact Be Mitigated by Project Change |
|---|---|---|---|
| • Proposed Action will set an important precedent for future projects. | ☐ | ☐ | ☐ Yes ☐ No |
| • Proposed Action will create or eliminate employment. | ☒ | ☐ | ☐ Yes ☐ No |
| • Other impacts: | ☐ | ☐ | ☐ Yes ☐ No |

20. Is there, or is there likely to be, public controversy related to potential adverse environment impacts?
☒ NO ☐ YES

PUBLIC INTEREST LIKELY

**If Any Action in Part 2 Is Identified as a Potential Large Impact or If you Cannot Determine the Magnitude of Impact, Proceed to Part 3**

## Part 3 - EVALUATION OF THE IMPORTANCE OF IMPACTS

### Responsibility of Lead Agency

Part 3 must be prepared if one or more impact(s) is considered to be potentially large, even if the impact(s) may be mitigated.

Instructions (If you need more space, attach additional sheets)

Discuss the following for each impact identified in Column 2 of Part 2:

1. Briefly describe the impact.
2. Describe (if applicable) how the impact could be mitigated or reduced to a small to moderate impact by project change(s).
3. Based on the information available, decide if it is reasonable to conclude that this impact is **important**.

   To answer the question of importance, consider:

   - The probability of the impact occurring
   - The duration of the impact
   - Its irreversibility, including permanently lost resources of value
   - Whether the impact can or will be controlled
   - The regional consequence of the impact
   - Its potential divergence from local needs and goals
   - Whether known objections to the project relate to this impact.



Reset

# Town of New Windsor

555 Union Avenue
New Windsor, New York 12553
Telephone: (845) 563-4615
Fax: (845) 563-4693

**OFFICE OF THE PLANNING BOARD**

**PROJECT REVIEW SHEET**

RECEIVED
MAR 14 2006
N.W. HIGHWAY DEPT.

**TO: HIGHWAY DEPARTMENT**

P.B. FILE #**05-27** DATE RECEIVED: ____ TAX MAP #

**PLEASE RETURN COMPLETED FORM TO MYRA**
**BY: A.S.A.P. TO BE ON AGENDA FOR THE ____ PLANNING BOARD MEETING.**

THE MAPS AND/OR PLANS FOR:

**PIARIA, INC.**
Applicant or Project Name

SITE PLAN **XXX**, SUBDIVISION ____, LOT LINE CHANGE ____,
SPECIAL PERMIT **XXX**

HAVE BEEN REVIEWED BY THE UNDERSIGNED AND ARE:

☒ APPROVED:

Notes: _____

☐ DISAPPROVED:

Notes: _____

Signature: _____ 3/15/06
Reviewed by date

# TOWN OF NEW WINDSOR


**TOWN CLERK'S OFFICE**
**555 UNION AVENUE**
**NEW WINDSOR, NEW YORK 12553**
**Telephone: (845) 563-4611**
**Fax: (845) 563-4670**



## REQUEST FOR PUBLIC RECORDS

Date: 12-30-05

Name: Joseph Minuta Architecture

Address: 345 New Windsor Hwy Suite 202

Phone: ( 845 ) 565-0055

Representing: Joseph Minuta

**Please specify:**

- **Property location (street address or section, block and lot number)**
- **Department you are requesting records from**
- **Describe information requested as fully as possible**

AeJ Washrooms Rt. 300

Piana site Plan Silver Stream Road

***Documents may not be taken from this office.***

# TOWN OF NEW WINDSOR


**TOWN CLERK'S OFFICE**
**555 UNION AVENUE**
**NEW WINDSOR, NEW YORK 12553**
**Telephone: (845) 563-4611**
**Fax: (845) 563-4670**



**REQUEST FOR PUBLIC RECORDS**

Date: 12/29/05

Name: Frank Wm Decker

Address: 104 Silver Stream Rd

New Windsor, NY - 12553

Phone: ( 845 ) 564-7902

Representing: Self

**Please specify:**

- **Property location (street address or section, block and lot number)**
- **Department you are requesting records from**
- **Describe information requested as fully as possible**

Silver Stream Rd. Steel fabrication facility

Planning Board

***Documents may not be taken from this office.***

P.B. #05-27

**COUNTY OF ORANGE**

**EDWARD A. DIANA**
COUNTY EXECUTIVE

**DEPARTMENT OF PLANNING**
124 MAIN STREET
GOSHEN, NEW YORK 10924-2124
TEL: (845)291-2318 FAX: (845)291-2533
www.orangecountygov.com/planning

**DAVID CHURCH**, A.I.C.P.
COMMISSIONER

## ORANGE COUNTY DEPARTMENT OF PLANNING
## 239 L, M OR N REPORT

**This proposed action is being reviewed as an aid in coordinating such action between and among governmental agencies by bringing pertinent inter-community and countywide considerations to the attention of the municipal agency having jurisdiction.**

**Referred by:** New Windsor Planning Board

**Reference/County ID No.:** NWT02-06M
**Tax Parcel ID:** 3-1-15

**Applicant:** Piaria, Inc

**Proposed Action:** Site Plan

**Reason for Review:** Within 500' of St Rte 207

**Date of Full Statement:** February 6, 2006

Comments: The Department has received the above site plan, and offers the following:

- This project will have no major impact upon State or County facilities nor have any significant inter-municipal issues.
- It is also consistent with the County Comprehensive Plan and local laws.
- Having no further comments, from a County perspective, the Department recommends that the Planning Board proceed with its decision-making review process

**County Recommendation:** Local Determination

**Date:** February 21, 2006
**Reviewed By:** Kathy V. Murphy

*David Church, AICP*
**Commissioner of Planning**

**"IMPORTANT NOTE: As per NYS General Municipal Law 239-m(6),within 30 days of municipal final action on the above referred project, the referring board must file a report of the final action taken with the County Planning Department. For such filing, please use the final action report form attached to this review or available on-line at www.orangecountygov.com/planning."**

cc: M.E.
G.S.

# REPORT OF FINAL LOCAL ACTION

**To: Orange County Department of Planning**
**124 Main Street**
**Goshen, NY 10924**

**From:**

**Date:**

**Subject: GML 239 Referral ID#** NWT02-06M TAX PARCEL ID: 3-1-15
**Name of project:** PIAPIA, INC

As stated in Section 239 of the General Municipal Law of the State of New York State, within thirty days of taking final action in regard to a required referral to the Orange County Planning Department, the local referring agency shall file a report as to the final action taken. In regard to the proposed action described above, the following final action was taken:

_____ Our local board **approved** this action on _____.

_____ Our local board **approved** this action **with modifications** on _____.
Briefly, the modifications consisted of:

_____

_____

_____

_____ Our local board **disapproved** this action on_____.
Briefly, the reasons for disapproving this action were:

_____

_____

_____

_____ The proposal was **withdrawn**.

Additional space for comments on actions:

_____

_____

_____

_____

_____

# ORANGE COUNTY DEPARTMENT OF PLANNING

**124 Main Street**
**Goshen, NY 10924-2124**

## APPLICATION FOR MANDATORY COUNTY REVIEW OF LOCAL PLANNING ACTION

(Variances, Zone Changes, Special Permits, Subdivisions, Site Plans)

Local File No. **05-27** **(Please include this number on any correspondence)**

1. Municipality **Town of New Windsor** Public Hearing Date: **12-14-05**

City, Town or Village Board _____ Planning Board **X** Zoning Board _____

2. Owner: Name: **Maureen & John O'Neill**
   Address: **109 Chestnut Dr., New Windsor, NY 12553**

3. Applicant * Name: **PIARIA Inc.**
   Address: **36-25 23rd St., Long Island City, NY 11106**

***If applicant is owner, leave blank**

4. Location of Site: **East side of Silver Stream ROad (off Rt. 207)**
   (Street or highway, plus nearest intersection)

Tax Map Identification: Section: **3** Block: **1** Lot: **15**

Present Zoning District: **PI** Size of Parcel: **4.28 Acres**

5. Type of Review:

**Special Permit**

Zone Change: From -- To: --

Zoning Amendment: To Section _____

**Subdivision: Number of Lots/Units _____

***Site Plan: Use **B-3 (Special Permit)**

Date: **12-14-05**
Resubmitted 2-3-06

Signature & Title: Mark J. Edsall, P.E.
**Mark J. Edsall, P.E.,**
**Planning Board Engineer**

RESULTS OF P.B. MEETING OF: 12/14/05

PROJECT: Pioria Inc. P.B. # 05-27

**LEAD AGENCY:**

AUTHORIZE COORD. LETTER: Y X N____
TAKE LEAD AGENCY: Y √ N____

M)___S)___VOTE: A___N___
CARRIED: Y____N____

**NEGATIVE DEC:**

M)___S)___VOTE: A___N___
CARRIED: Y____N____

**PUBLIC HEARING:** WAIVED:____ CLOSED: √

M) GA S) DG VOTE: A___N___ SCHEDULE P.H.: Y____N____

SEND TO O.C. PLANNING: Y___
SEND TO DEPT. OF TRANSPORTATION: Y___

REFER TO Z.B.A.: M)____ S)___ VOTE: A____N_____

RETURN TO WORK SHOP: Y___N___

**APPROVAL:**

M)___S)____ VOTE:A____N____ APPROVED: _____

NEED NEW PLANS: Y____N____

**CONDITIONS – NOTES:**

need
Highway approval
O.C. Planning approval
- SWPPP -

Board wants a full environmental assessment form (EAF)
Add trees to plans
retaining wall needs fence

McGOEY, HAUSER and EDSALL
CONSULTING ENGINEERS P.C.

RICHARD D. McGOEY, P.E. (NY & PA)
WILLIAM J. HAUSER, P.E. (NY & NJ)
MARK J. EDSALL, P.E. (NY, NJ & PA)
JAMES M. FARR, P.E. (NY & PA)

MAIN OFFICE
33 AIRPORT CENTER DRIVE
SUITE 202
NEW WINDSOR, NEW YORK 12553

(845) 567-3100
FAX: (845) 567-3232
E-MAIL: MHENY@MHEPC.COM

*WRITER'S E-MAIL ADDRESS:*
*MJE@MHEPC.COM*

# TOWN OF NEW WINDSOR
# PLANNING BOARD
# REVIEW COMMENTS

| | |
|---|---|
| **PROJECT NAME:** | PIARIA INC. SITE PLAN<br>(Steel Fabrication Facility) |
| **PROJECT LOCATION:** | SILVER STREAM ROAD<br>SECTION 3 – BLOCK 1 – LOT 15 |
| **PROJECT NUMBER:** | 05-27 |
| **DATE:** | 14 DECEMBER 2005 |
| **DESCRIPTION:** | THE APPLICATION PROPOSES THE CONSTRUCTION OF A 9800 SF STRUCTURE WITH 5180 SF CANOPY WITH ASSOCIATED SITE IMPROVEMENTS. THE PLAN WAS PREVIOUSLY REVIEWED AT THE 28 SEPTEMBER 2005 PLANNING BOARD MEETING. THE APPLICATION IS BEFORE THE BOARD FOR A PUBLIC HEARING AT THIS MEETING. |

1. The property is located in the PI zoning district of the Town. The plan indicates that proposed use as Special Permit Use B-3 (Manufacturing, etc., with storage). The site easily complies with the minimum requirements, and has adequate parking based on the parking calculation on the plan.

2. Has the Highway Superintendent approved the stormwater plans (discharge is into a roadside swale of a town roadway)?

3. The Planning Board may wish to classify this action as an "unlisted action" under SEQRA, and consider a "negative declaration" of environmental significance, based on the information presented and reviewed.

4. As per New York State General Municipal Law (GML 239), this plan was referred to the OCPD for review. A response is pending.

5. Some minor corrections are requested on the final plans, and some procedural items that remain are as follows:

- As previously noted, stormwater is collected and discharged to a Water Quality Basin, then to the roadside swale. Since more than an acre is disturbed, a full SWPPP is required. The plans submitted include the details for stormwater management, the final SWPPP submittal must be reviewed and accepted by our office.

- Add a white stripe on the transition between the handicapped access aisle and the adjoining standard parking space.

- Add NWPB project number in approval boxes.

- The Planning Board should require that a bond estimate be submitted for this Site Plan (Subdivision) in accordance with Chapter 137 of the Town Code.

Respectfully Submitted,

Mark J. Edsall, P.E., P.P.
Planning Board Engineer

MJE/st
NW05-27-14Dec05.doc

7

**PLANNING BOARD: TOWN OF NEW WINDSOR**
**COUNTY OF ORANGE: STATE OF NEW YORK**

----------X

In the Matter of the Application for Site Plan / Special Permit for:

**PIARIA, INC.** P. B. #05-27

---

Applicant

AFFIDAVIT OF SERVICE BY MAIL

STATE OF NEW YORK )
) SS:
COUNTY OF ORANGE )

MYRA L. MASON, being duly sworn, deposes and says:

That I am not a party to the action, am over 18 years of age and reside at 67 Bethlehem Road, New Windsor, NY 12553.

That on the **23RD** day of NOVEMBER, 2005, I compared the 17addressed envelopes containing the Public Hearing Notice pertinent to this case with the certified list provided by the Assessor's Office regarding the above application for site plan/subdivision/special permit/lot line change approval and I find that the addresses are identical to the list received. I then placed the envelopes in a U.S. Depository within the Town of New Windsor.

Sworn to before me this

Myra L. Mason
Myra L. Mason, Secretary

29th day of November, 2005

Notary Public

JENNIFER MEAD
Notary Public, State Of New York
No. 01ME5050024
Qualified in Orange County
Commission Expires 10/30/2006

# LEGAL NOTICE

NOTICE IS HEREBY GIVEN that the PLANNING BOARD of the TOWN OF NEW WINDSOR, County of Orange, State of New York will hold a PUBLIC HEARING at Town Hall, 555 Union Avenue, New Windsor, New York on **DECEMBER 14TH, 2005** at 7:30 P.M. on the approval of the proposed Site Plan and Special Permit for **PIARIA, INC. (05-27)**

Located at **SILVER STREAM ROAD** (Tax Map #Section 3, Block 1, Lot 15) . Map of the proposed project is on file and may be inspected at the **Planning Board Office**, Town Hall, 555 Union Avenue, New Windsor, NY prior to the Public Hearing.

Date: NOVEMBER 23, 2005

By Order of

TOWN OF NEW WINDSOR PLANNING BOARD

James R. Petro, Jr., Chairman


# Town of New Windsor

555 Union Avenue
New Windsor, New York 12553
Telephone: (845) 563-4631
Fax: (845) 563-3101

## Assessors Office

November 22, 2005

Greg Shaw
744 Broadway
P.O. Box 2569
Newburgh, NY 12550

Re: 3-1-15 PB#: 05-27 (17)

Dear Mr. Shaw:

According to our records, the attached list of property owners are within five hundred (500) feet of the above referenced property. All properties marked with an asterisk (*) are also across the street or abutting to above referenced property.

The charge for this service is $35.00, minus your deposit of $25.00.

Please remit the balance of $10.00 to the Town Clerk's Office.

Sincerely,

J. Todd Wiley, IAO
Sole Assessor

JTW/tmp
Attachments

CC: Myra Mason, Planning Board

3-1-6
Robert Pisacona
16 Stonecrest Drive
New Windsor, NY 12553

3-1-10 & 11
Lisa & William Wiseman, III
84 Silver Stream Road
New Windsor, NY 12553

3-1-13.1
Donald Szajko
Lisa Medon
74 Silver Stream Road
New Windsor, NY 12553

3-1-14*
Adelino Guerra
163 Blooming Grove Tpke
New Windsor, NY 12553

3-1-16*
Sandra & Kevin Pason, Sr.
26 Silver Stream Road
New Windsor, NY 12553

3-1-17*
Keith & Elizabeth Reinhold
36 Silver Stream Road
New Windsor, NY 12553

3-1-19.1
Primercord Realty, LLC
470 Little Britain Road
Newburgh, NY 12550

3-1-22.1
Lawrence & Karen Byrd
15 Silver Stream Road
New Windsor, NY 12553

3-1-22.2
Chester Palozzo, Jr.
21 Silver Stream Road
New Windsor, NY 12553

3-1-22.3
George Damiano
Roger Setya
P.O. Box 38
Parsippany, NJ 07054

3-1-27.22
Newburgh SPCA
940 Little Britain Road
New Windsor, NY 12553

3-1-35*
Edward Hill Enterprises, Inc.
P.O. Box 1012
Port Ewen, NY 12466

3-1-63*
NYS DOT c/o Carlton Boorn
State Campus – Bldg 5 Rm 401
Albany, NY 12232

4-1-9.1*
Union Avenue Enterprises, Inc.
P.O. Box 7435
Newburgh, NY 12550

4-1-9.22
James Maroney
833 Union Avenue
New Windsor, NY 12553

4-1-9.23
Patrick Maroney
833 Union Avenue
New Windsor, NY 12553

4-1-9.241
Fenelon Prop., Inc.
600 Rte. 46
Clifton, NJ 07015

CHECKED BY MYRA: MKC 11/8/05

# TOWN OF NEW WINDSOR
## REQUEST FOR NOTIFICATION LIST

DATE: **11-08-05** PROJECT NUMBER: ZBA# ____ P.B. # **05-27**

APPLICANT NAME: **PIARIA, INC.**

PERSON TO NOTIFY TO PICK UP LIST:

**GREG SHAW**
**744 BROADWAY - P.O. BOX 2569**
**NEWBURGH, NY 12550**

TELEPHONE: **561-3695 (GREG SHAW)**

TAX MAP NUMBER:
SEC. **3** BLOCK **1** LOT **15**
SEC. ____ BLOCK ____ LOT ____
SEC. ____ B LOCK ____ LOT ____

PROPERTY LOCATION: **SILVER STEAM ROAD**
**NEW WINDSOR, NY**

THIS LIST IS BEING REQUESTED BY:

NEW WINDSOR PLANNING BOARD: **XXX**

SITE PLAN OR SUBDIVISION: (ABUTTING AND ACROSS ANY STREET **XXX**

SPECIAL PERMIT ONLY: (ANYONE WITHIN 500 FEET) **XXX**

AGRICULTURAL DISTRICT:
(ANYONE WITHIN THE AG DISTRICT WHICH IS WITHIN 500'
OF SITE PLAN OR SUBDIVISION PROJECT) ____

❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖

NEW WINDSOR ZONING BOARD ____

LIST WILL CONSIST OF ALL PROPERTY WITHIN 500 FEET OF PROJECT ____

❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖

AMOUNT OF DEPOSIT: **25.00** CHECK NUMBER: **11405**

TOTAL CHARGES: _____

## Town of New Windsor
PLANNING BOARD

PUBLIC HEARING NOTICE

NOTICE IS HEREBY GIVEN that the PLANNING BOARD of the TOWN OF NEW WINDSOR, County of Orange, State of New York will hold a PUBLIC HEARING at Town Hall, 555 Union Avenue, New Windsor, New York on DECEMBER 14, 2005 at 7:30 P.M. on the approval of the proposed Site Plan and Special Permit for PIARIA, INC. (05-27). Located at SILVER STREAM ROAD (Tax Map #Section 3 , Block 1 , Lot 15 ). Map of the proposed project is on file and may be inspected at the Planning Board Office, Town Hall, 555 Union Avenue, New Windsor, NY prior to the Public Hearing.

Date: November 23, 2005

BY ORDER OF
TOWN OF NEW WINDSOR PLANNING BOARD
JAMES R. PETRO, JR., CHAIRMAN



**Ad Number: 1819782 Advertiser: NEW WINDSOR, TOWN**

Phone: 8455634615 Sys No: 1194114 Caller: MYRA

**INVOICING CUSTOMER:**

Phone: 8455634615 Sys No: 1194114 AcctNo: P.O. No:

Name: NEW WINDSOR, TOWN Subscriber:

Address: ZONING AND PLANNING

555 UNION AVENUE

NEW WINDSOR NY 12553

**ORDER:**

Printed By: THRFODDRIL Date: 11/23/2005 Assigned Sales: TownofNewWindsor PLANNINGBOARD PUBLICH AdType: LINER Order Type: NORMAL

Manual Delay: Box No: Call Back: Y

NOTES:

Change Reason:

**INSERTION:**

Product: THI Paper: TH Class: 999X; LEGAL BILLING

Schedule: Start_Date - 11/26/2005 End_Date - 11/26/2005

Sort: TOWN OF NEW WINDSORPLANNING BOARDPUBLIC

**PRODUCTION:**

Text Size: 2 x 25.00 ProdType: ENTERPRISE ColorNo: 0 Colors:

Tearsheets: 1 Proofs: 0 Affidavits: 1 Alt Addr: N

**PRICING:**

Price: 46.75 Payment Method: BI Amount Paid: 0 Amount Owed: 46.75

PriceMethod: 0 (0=Normal, 1=User Net, 2=System Gross) Rate Code: LEL

---

For fields listed below 0 = NO 1 = YES

Till Forbid: 0 Mult. Content: 0

# TIMES HERALD-RECORD

40 Mulberry Street, Middletown, NY 10940

State of New York:
County of Orange: ss:

**Patricia Foddrill**

Being duly sworn deposes and says that the ORANGE COUNTY PUBLICATIONS Division of Ottaway Newspapers-Radio, Inc. is a corporation organized under the laws of the State of New York and is, at all the times hereinafter mentioned, was the printer and publisher of The Times Herald-Record, a daily newspaper distributed in the Orange, Ulster, Rockland, Dutchess, Pike, PA, Delaware and Sullivan Counties, published in the English language in the City of Middletown, County of Orange, State of New York, that deponent is the

**Legal Advertising Rep.**

of said The Times Herald-Record acquainted with the facts hereinafter stated, and duly authorized by said Corporation to make this affidavit; that the

**Public Notice**

a true printed copy of which is hereunto annexed, has been duly and regularly published in the manner required by law in said The Times Herald-Record in each of its issues published upon each of the following dates, to wit: In its issues of

11/26/05

Signature of Representative: Patricia Foddrill

Sworn in before me this 28

Day of Nov. 2005

Carol M. Montana

Notary Public, Orange County

CAROL M. MONTANA
Notary Public, State of New York
Sullivan County Clerk's #2041
Commission Expires Dec. 12, 20 06

McGOEY, HAUSER and EDSALL
CONSULTING ENGINEERS P.C.

RICHARD D. McGOEY, P.E. (NY & PA)
WILLIAM J. HAUSER, P.E. (NY & NJ)
MARK J. EDSALL, P.E. (NY, NJ & PA)
JAMES M. FARR, P.E. (NY & PA)

MAIN OFFICE
33 Airport Center Drive
Suite 202
New Windsor, New York 12553

(845) 567-3100
fax: (845) 567-3232
e-mail: mheny@mhepc.com

*Writer's e-mail address:*
*mje@mhepc.com*

# TOWN OF NEW WINDSOR
# PLANNING BOARD
# REVIEW COMMENTS

| | |
|---|---|
| **PROJECT NAME:** | PIARIA INC. SITE PLAN<br>(Steel Fabrication Facility) |
| **PROJECT LOCATION:** | SILVER STREAM ROAD<br>SECTION 3 – BLOCK 1 – LOT 15 |
| **PROJECT NUMBER:** | 05-27 |
| **DATE:** | 28 SEPTEMBER 2005 *(originally scheduled for 8-24-05)* |
| **DESCRIPTION:** | THE APPLICATION PROPOSES THE CONSTRUCTION OF A 9800 SF STRUCTURE WITH 5180 SF CANOPY WITH ASSOCIATED SITE IMPROVEMENTS. THE PLAN WAS REVIEWED ON A CONCEPT BASIS ONLY. |

1. The property is located in the PI zoning district of the Town. The plan indicates that proposed use as Special Permit Use B-3 (Manufacturing, etc., with storage). Based on this selection, the bulk information is correct as shown on the plan, and the lot easily complies with the minimum requirements. Based on the uses within the building (as shown in the parking calculation), adequate parking is provided on site.

2. The access drive off Silver Stream Road is approximately 10% slope, with parking areas generally approximately 8% to 11%. This seems somewhat steep for parking areas, although existing site conditions seem to limit options.

3. Stormwater is collected and discharged to a Water Quality Basin, then to the roadside swale. If the site involves the disturbance of more than 1 acre, a full SWPPP will be necessary. Compliance with the Town Stormwater regulations, and a review by the Highway Superintendent is also necessary.

4. The Planning Board may wish to assume the position of Lead Agency under the SEQRA review process.

5. The Planning Board should consider authorizing the mandatory Public Hearing for this Special Permit use, per the requirements of Section 300-87 of the Town Zoning Local Law.

6. Effective September 1, 2004, the Orange County Planning Department resumed review of all projects and actions that meet the requirements of New York State General Municipal Law (GML 239). Effectively, all projects within 500-foot distance requirements of the State statute (to municipal boundaries; county or state park; county or state highway; county drainage channel or right-of-way; county or state property with a building; or farm operation in an agricultural district) must again be referred to the OCPD for review.

Respectfully Submitted,

Mark J. Edsall, P.E., P.P.
Planning Board Engineer

MJE/st
NW05-27-28Sept05.doc

cc: P|Bd.

November 30, 2005

36 Silver Stream Rd.
New Windsor, NY 12553
567-7739

To: Town Clerk

Under Freedom of Information, I would like to request the following documentation regarding the proposed project Piara, Inc. (05-27) (Tax Map#Section 3, Block 1, Lot 15).

1. A copy of the Site Plan Application.
2. The Special Permit Application
3. Environmental Assessment Form
4. Any other documents pertaining to the application

Sincerely,

Elizabeth Reinhold

RESULTS OF P.B. MEETING OF: September 28, 2005

PROJECT: Piaria, Inc Site Plan P.B. # 05-27

**LEAD AGENCY:**

AUTHORIZE COORD. LETTER: Y____ N____
TAKE LEAD AGENCY: Y ✓ N____

M) A S) G VOTE: A 5 N 0
CARRIED: Y ✓ N____

**NEGATIVE DEC:**

M)___ S)___ VOTE: A___ N___
CARRIED: Y____ N___

**PUBLIC HEARING:** WAIVED:____ CLOSED:____

M) A S) MN VOTE: A 5 N 0 SCHEDULE P.H.: Y ✓ N____

SEND TO O.C. PLANNING: Y ✓
SEND TO DEPT. OF TRANSPORTATION: Y___

REFER TO Z.B.A.: M)___ S)___ VOTE: A___ N___

RETURN TO WORK SHOP: Y___ N___

**APPROVAL:**

M)___ S)___ VOTE: A___ N___ APPROVED: ____

NEED NEW PLANS: Y___ N___

**CONDITIONS – NOTES:**

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 09/28/2005 PAGE: 1

LISTING OF PLANNING BOARD **AGENCY APPROVALS**

FOR PROJECT NUMBER: 5-27
NAME: PIARIA INC. PA2005-662
APPLICANT: PIARIA INC.

| | DATE-SENT | AGENCY---------- | DATE-RECD | RESPONSE---------- |
|---|---|---|---|---|
| REV1 | 09/21/2005 | MUNICIPAL HIGHWAY | 09/27/2005 | UNDER REVIEW |
| REV1 | 09/21/2005 | MUNICIPAL WATER | / / | |
| REV1 | 09/21/2005 | MUNICIPAL SEWER | / / | |
| REV1 | 09/21/2005 | MUNICIPAL FIRE | 09/22/2005 | DISAPPROVED |
| | | . INSUFFICIENT FIRE DEPT. ACCESSIBILITY TO ENTIRE BUILDING AS | | |
| | | . PREVIOUSLY NOTED ON 8-26-05 PLAN REVIEW | | |
| REV1 | 09/21/2005 | NYSDOT | / / | |
| ORIG | 08/22/2005 | MUNICIPAL HIGHWAY | 09/21/2005 | SUPERSEDED BY REV1 |
| ORIG | 08/22/2005 | MUNICIPAL WATER | 09/21/2005 | SUPERSEDED BY REV1 |
| ORIG | 08/22/2005 | MUNICIPAL SEWER | 09/21/2005 | SUPERSEDED BY REV1 |
| ORIG | 08/22/2005 | MUNICIPAL FIRE | 09/21/2005 | SUPERSEDED BY REV1 |
| ORIG | 08/22/2005 | NYSDOT | 09/21/2005 | SUPERSEDED BY REV1 |

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 09/28/2005 PAGE: 1

LISTING OF PLANNING BOARD**ACTIONS**

STAGE: STATUS [Open, Withd]
O [Disap, Appr]

FOR PROJECT NUMBER: 5-27
NAME: PIARIA INC. PA2005-662
APPLICANT: PIARIA INC.

| --DATE-- | MEETING-PURPOSE---------- | ACTION-TAKEN-------- |
|---|---|---|
| 07/20/2005 | WORK SHOP | SUBMIT |

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 08/22/2005 PAGE: 1

LISTING OF PLANNING BOARD **FEES**
**ESCROW**

FOR PROJECT NUMBER: 5-27
NAME: PIARIA INC. PA2005-662
APPLICANT: PIARIA INC.

| --DATE-- | DESCRIPTION--------- | TRANS | --AMT-CHG | -AMT-PAID | --BAL-DUE |
|---|---|---|---|---|---|
| 08/22/2005 | REC. CK. #1004 | PAID | | 750.00 | |
| | | TOTAL: | 0.00 | 750.00 | -750.00 |

8/24/05

**Town of New Windsor**
555 Union Avenue
New Windsor, NY 12553
(845) 563-4611

# RECEIPT
# #797-2005

08/24/2005

Shaw Engineering
744 Broadway
Newburgh, NY 12550

Received $ 250.00 for Planning Board Fees, on 08/24/2005. Thank you for stopping by the Town Clerk's office.

As always, it is our pleasure to serve you.

Deborah Green
Town Clerk

#05-27 - Special permit app fee

**Town of New Windsor**
555 Union Avenue
New Windsor, NY 12553
(845) 563-4611

# RECEIPT
# #796-2005

08/24/2005

Piana Inc
20-40 42nd Street
Astoria, NY 11105

Received $ 125.00 for Planning Board Fees, on 08/24/2005. Thank you for stopping by the Town Clerk's office.

As always, it is our pleasure to serve you.

Deborah Green
Town Clerk

# 05-27 application fee

McGOEY, HAUSER and EDSALL
CONSULTING ENGINEERS P.C.

RICHARD D. McGOEY, P.E. (NY & PA)
WILLIAM J. HAUSER, P.E. (NY & NJ)
MARK J. EDSALL, P.E. (NY, NJ & PA)
JAMES M. FARR, P.E. (NY & PA)

MAIN OFFICE
33 Airport Center Drive
Suite 202
New Windsor, New York 12553

(845) 567-3100
fax: (845) 567-3232
e-mail: mheny@mhepc.com

*Writer's e-mail address:*
*mje@mhepc.com*

# TOWN OF NEW WINDSOR
# PLANNING BOARD
# REVIEW COMMENTS

| | |
|---|---|
| **PROJECT NAME:** | PIARIA INC. SITE PLAN<br>(Steel Fabrication Facility) |
| **PROJECT LOCATION:** | SILVER STREAM ROAD<br>SECTION 3 – BLOCK 1 – LOT 15 |
| **PROJECT NUMBER:** | 05-27 |
| **DATE:** | 24 AUGUST 2005 |
| **DESCRIPTION:** | THE APPLICATION PROPOSES THE CONSTRUCTION OF A 9800 SF STRUCTURE WITH 5180 SF CANOPY WITH ASSOCIATED SITE IMPROVEMENTS. THE PLAN WAS REVIEWED ON A CONCEPT BASIS ONLY. |

1. The property is located in the PI zoning district of the Town. The plan indicates that proposed use as Special Permit Use B-3 (Manufacturing, etc., with storage). Based on this selection, the bulk information is correct as shown on the plan, and the lot easily complies with the minimum requirements. Based on the uses within the building (as shown in the parking calculation), adequate parking is provided on site.

2. The access drive off Silver Stream Road is approximately 10% slope, with parking areas generally approximately 8% to 11%. This seems somewhat steep for parking areas, although existing site conditions seem to limit options.

3. Stormwater is collected and discharged to a Water Quality Basin, then to the roadside swale. If the site involves the disturbance of more than 1 acre, a full SWPPP will be necessary. Compliance with the Town Stormwater regulations, and a review by the Highway Superintendent is also necessary.

4. The Planning Board may wish to assume the position of Lead Agency under the SEQRA review process.

5. The applicant is reminded that a public hearing is mandatory since this is a special permit use. Since this is only a conceptual submittal, and quite a bit of additional details and plans are required before the application is complete, I suggest the scheduling of the hearing be deferred.

6. Effective September 1, 2004, the Orange County Planning Department resumed review of all projects and actions that meet the requirements of New York State General Municipal Law (GML 239). Effectively, all projects within 500-foot distance requirements of the State statute (*to municipal boundaries; county or state park; county or state highway; county drainage channel or right-of-way; county or state property with a building; or farm operation in an agricultural district*) must again be referred to the OCPD for review.

Respectfully Submitted,

Mark J. Edsall, P.E., P.P.
Planning Board Engineer

MJE/st
NW05-27-24-Aug05.doc

**PLANNING BOARD**
**TOWN OF NEW WINDSOR**
**555 UNION AVENUE**
**NEW WINDSOR, N.Y. 12553**

**Appl No:** 5-27 **File Date:** 08/22/2005

**SEC-BLK-LOT:** 3-1-15-0

**Project Name:** PIARIA INC. PA2005-662 **Type:** 3

**Owner's Name:** MAUREEN & JOHN O'NEILL **Phone:**
**Address:** 109 CHESTNUT DRIVE - NEW WINDSOR, NY

**Applicant's Name:** PIARIA INC. **Phone:** (718) 392-7176
**Address:** 36-25 23RD STREET - LONG ISLAND CITY, NY 11106

**Preparer's Name:** GREGORY SHAW **Phone:** (845) 561-3695
**Address:** BROADWAY - NEWBURGH, NY

**Proxy/Attny's Name:** N/A **Phone:**
**Address:**

**Notify:** GREGORY SHAW **Phone:**

**Location:** SILVER STREAM ROAD

| Acreage | Zoned | Prop-Class | Stage | Status |
|---|---|---|---|---|
| 4.280 | PI | 0 | | O |

| Printed-on | Schl-Dist | Sewr-Dist | Fire-Dist | Light-Dist |
|---|---|---|---|---|
| 08/22/2005 | NEWB | | | |

**Appl for:** CONSTRUCTION OF 9,800 SF BUILDING WITH 5,180 SF TRUCK CANOPY AND 22 PARKING SPACES

**Addl Municipal Services:**
**Streets:**
**Water:**
**Sewer:**
**Garbage:**

# Town of New Windsor

555 Union Avenue
New Windsor, New York 12553
Telephone: (845) 563-4615
Fax: (845) 563-4693

**OFFICE OF THE PLANNING BOARD**

RECEIVED
SEP 22 2005
TOWN OF NEW WINDSOR
FIRE INSPECTOR OFFICE

## PROJECT REVIEW SHEET

**TO: FIRE INSPECTOR**

P.B. FILE #**05-27** DATE RECEIVED: **09-20-05** TAX MAP #**3-1-15**

**PLEASE RETURN COMPLETED FORM TO MYRA BY: A.S.A.P. TO BE ON AGENDA FOR THE 9-28-05 PLANNING BOARD MEETING.**

THE MAPS AND/OR PLANS FOR:

**PIARIA SITE PLAN**
Applicant or Project Name

SITE PLAN **XXX**, SUBDIVISION ____, LOT LINE CHANGE ____, SPECIAL PERMIT ____

HAVE BEEN REVIEWED BY THE UNDERSIGNED AND ARE:

☐ APPROVED:

Notes: _____

☒ DISAPPROVED:

Notes: Insufficient Fire Department Accessibility to entire building as previously noted on 8/26/05 plan Review

Signature: _____ 8/22/05
Reviewed by date

# Town of New Windsor

555 Union Avenue
New Windsor, New York 12553
Telephone: (845) 563-4615
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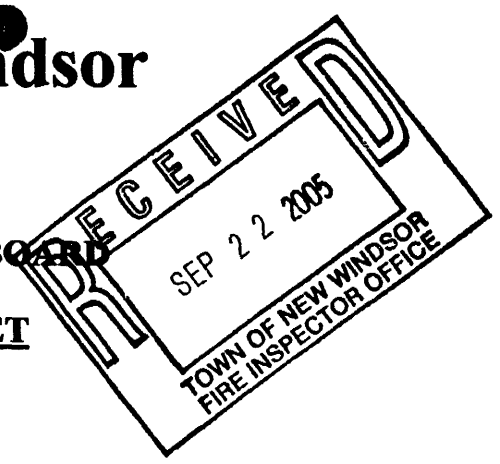
**OFFICE OF THE PLANNING BOARD**




## PROJECT REVIEW SHEET

**TO: E 911 COORDINATOR**

P.B. FILE #**05-27** DATE RECEIVED: **09-20-05** TAX MAP #**3-1-15**

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THE MAPS AND/OR PLANS FOR:

**PIARIA SITE PLAN**
Applicant or Project Name

SITE PLAN **XXX**, SUBDIVISION ____, LOT LINE CHANGE ____, SPECIAL PERMIT ____

HAVE BEEN REVIEWED BY THE UNDERSIGNED AND ARE:

☒ APPROVED:

Notes: _____

☐ DISAPPROVED:

Notes: _____

Signature: _____ 8/22/05
Reviewed by date

# Town of New Windsor

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New Windsor, New York 12553
Telephone: (845) 563-4615
Fax: (845) 563-4693

**OFFICE OF THE PLANNING BOARD**

**PROJECT REVIEW SHEET**

**TO: E 911 COORDINATOR**

P.B. FILE #**05-27** DATE RECEIVED: **08-22-05** TAX MAP #**3-1-15**

**PLEASE RETURN COMPLETED FORM TO MYRA BY: A.S.A.P. TO BE ON AGENDA FOR THE 08-24-05 PLANNING BOARD MEETING.**

THE MAPS AND/OR PLANS FOR:

**PIARIA SITE PLAN**
Applicant or Project Name

SITE PLAN **XXX**, SUBDIVISION ____, LOT LINE CHANGE ____, SPECIAL PERMIT ____

HAVE BEEN REVIEWED BY THE UNDERSIGNED AND ARE:

☐ APPROVED:

Notes: _____

☒ DISAPPROVED:

Notes: Include 911 Number Address on plans – 911 Number is 42 Silver Stream Road.

Signature: _____ 8/26/05
Reviewed by date

# Town of New Windsor

555 Union Avenue
New Windsor, New York 12553
Telephone: (845) 563-4615
Fax: (845) 563-4693

**OFFICE OF THE PLANNING BOARD**

**PROJECT REVIEW SHEET**

RECEIVED
AUG 2 2 2005
TOWN OF NEW WINDSOR
FIRE INSPECTOR OFFICE

**TO: FIRE INSPECTOR**

P.B. FILE #**05-27** DATE RECEIVED: **08-22-05** TAX MAP #**5-1-15**

**PLEASE RETURN COMPLETED FORM TO MYRA BY: A.S.A.P. TO BE ON AGENDA FOR THE 08-24-05 PLANNING BOARD MEETING.**

THE MAPS AND/OR PLANS FOR:

**PIARIA SITE PLAN**
Applicant or Project Name

SITE PLAN **XXX**, SUBDIVISION ____, LOT LINE CHANGE ____, SPECIAL PERMIT ____

HAVE BEEN REVIEWED BY THE UNDERSIGNED AND ARE:

☐ APPROVED:

Notes: _____

☒ DISAPPROVED:

Notes: Insufficient fire Department Accessibility to entire Building

Signature: _____
Reviewed by date

# Town of New Windsor

555 Union Avenue
New Windsor, New York 12553
Telephone: (845) 563-4615
Fax: (845) 563-4693

**OFFICE OF THE PLANNING BOARD**

## PROJECT REVIEW SHEET

**TO: HIGHWAY DEPARTMENT**

P.B. FILE #**05-27** DATE RECEIVED: **09-20-05** TAX MAP #**3-1-15**

**PLEASE RETURN COMPLETED FORM TO MYRA BY: A.S.A.P. TO BE ON AGENDA FOR THE 9-28-05 PLANNING BOARD MEETING.**

RECEIVED
SEP 22 2005
N.W. HIGHWAY DEPT.

THE MAPS AND/OR PLANS FOR:

**PIARIA SITE PLAN**
Applicant or Project Name

SITE PLAN **XXX**, SUBDIVISION ____, LOT LINE CHANGE ____, SPECIAL PERMIT ____

HAVE BEEN REVIEWED BY THE UNDERSIGNED AND ARE:

☐ APPROVED:

Notes: _____

☐ DISAPPROVED:

Notes: Under review

Signature: _____
Reviewed by date

# TOWN OF NEW WINDSOR

555 UNION AVENUE
NEW WINDSOR, NEW YORK 12553
Telephone: (845) 563-4615
Fax: (845) 563-4695

## *PLANNING BOARD APPLICATION*

***TYPE OF APPLICATION (check appropriate item):***

Subdivision____ Lot Line Change____ Site Plan__x__ Special Permit____

Tax Map Designation: Sec. __3__ Block__1__ Lot__15__

***BUILDING DEPARTMENT REFERRAL NUMBER*** _____ - _____

1. Name of Project New Steel Fabricating Facility For PIARIA Inc.

2. Owner of Record Maureen Anne & John O'Neill Phone _____

   Address: 109 Chestnut Drive, New Windsor, NY 12553
   (Street Name & Number) (Post Office) (State) (Zip)

3. Name of Applicant PIARIA Inc. Phone 718-392-7176

   Address: 36-25 23rd Street, Long Island City, NY 11106
   (Street Name & Number) (Post Office) (State) (Zip)

4. Person Preparing Plan Gregory J. Shaw, P.E. Phone 561-3695

   Address: 744 Broadway Newburgh NY 12550
   (Street Name & Number) (Post Office) (State) (Zip)

5. Attorney _____ Phone _____

   Address _____
   (Street Name & Number) (Post Office) (State) (Zip)

6. Person to be notified to appear at Planning Board meeting:

   Gregory J. Shaw, P.E. 561-3695 561-3027
   (Name) (Phone) (fax)

7. Project Location: On the East side of Silver Stream Road
   (Direction) (Street)

8. Project Data: Acreage 4.28 Zone PI School Dist. Newburgh



**( PLEASE DO NOT COPY 1 & 2 AS ONE PAGE TWO-SIDED)**

9. Is this property within an Agricultural District containing a farm operation or within 500 feet of a farm operation located in an Agricultural District? Yes_____ No__X_____

***This information can be verified in the Assessor's Office.**
***If you answer yes to question 9, please complete the attached AAgricultural Data Statement.**

10. Detailed description of Project: (Use, Size, Number of Lots, etc.)_____
The construction of a 9,800 SF building along with a 5,180 SF truck canopyand 22 parking spaces on a 4.28 acre parcel

11. Has the Zoning Board of Appeals Granted any Variances for this property? yes_____no__X_
12. Has a Special Permit previously been granted for this property? yes_____no__X__

**IF THIS APPLICATION IS SIGNED BY ANYONE OTHER THAN THE PROPERTY OWNER, A SEPARATE NOTARIZED STATEMENT OR PROXY STATEMENT FROM THE OWNER MUST BE SUBMITTED, AT THE TIME OF APPLICATION, AUTHORIZING THIS APPLICATION.**

STATE OF NEW YORK)
SS.:
COUNTY OF ORANGE)

THE UNDERSIGNED APPLICANT, BEING DULY SWORN, DEPOSES AND STATES THAT THE INFORMATION, STATEMENTS AND REPRESENTATIONS CONTAINED IN THIS APPLICATION AND SUPPORTING DOCUMENTS AND DRAWINGS ARE TRUE AND ACCURATE TO THE BEST OF HIS/HER KNOWLEDGE AND/OR BELIEF. THE APPLICANT FURTHER ACKNOWLEDGES RESPONSIBILITY TO THE TOWN FOR ALL FEES AND COSTS ASSOCIATED WITH THE REVIEW OF THIS APPLICATION.

SWORN BEFORE ME THIS:

2nd DAY [illegible] 2005

SAROJA BHASHYAM
Reg. #01BH6066828
Notary Public, State of New York
Qualified in Orange County
My Commission Expires Feb. 3, 2007

NOTARY PUBLIC

_____
(OWNER'S SIGNATURE)

_____
(AGENT'S SIGNATURE)

_____
Please Print Agent's Name as Signed

**********

TOWN USE ONLY:

_____ _____
DATE APPLICATION RECEIVED APPLICATION NUMBER

PROJECT ID NUMBER

617.20
APPENDIX C
STATE ENVIRONMENTAL QUALITY REVIEW

SEQR

# SHORT ENVIRONMENTAL ASSESSMENT FORM

**for UNLISTED ACTIONS Only**

**PART 1 - PROJECT INFORMATION** ( To be completed by Applicant or Project Sponsor)

| 1. APPLICANT / SPONSOR | 2. PROJECT NAME |
|---|---|
| PIARIA Inc. | New Steel Fabricating Building For PIARIA Inc. |
| **3.PROJECT LOCATION:** Town Of New Windsor (Municipality) | Orange (County) |

4. PRECISE LOCATION: Street Addess and Road Intersections, Prominent landmarks etc - or provide map

East side of Silver Stream Road

5. IS PROPOSED ACTION : ☑ New ☐ Expansion ☐ Modification / alteration

6. DESCRIBE PROJECT BRIEFLY:

The construction of a 9,800 SF building along with a 5,180 SF truck canopy and 22 parking spaces on a 4.28 acre parcel

7. AMOUNT OF LAND AFFECTED:
Initially 4.28 acres Ultimately 4.28 acres

8. WILL PROPOSED ACTION COMPLY WITH EXISTING ZONING OR OTHER RESTRICTIONS?
☑ Yes ☐ No If no, describe briefly:

9. WHAT IS PRESENT LAND USE IN VICINITY OF PROJECT? (Choose as many as apply.)
☑ Residential ☑ Industrial ☑ Commercial ☐ Agriculture ☐ Park / Forest / Open Space ☐ Other (describe)

10. DOES ACTION INVOLVE A PERMIT APPROVAL, OR FUNDING, NOW OR ULTIMATELY FROM ANY OTHER GOVERNMENTAL AGENCY (Federal, State or Local)
☐ Yes ☑ No If yes, list agency name and permit / approval:

11. DOES ANY ASPECT OF THE ACTION HAVE A CURRENTLY VALID PERMIT OR APPROVAL?
☐ Yes ☑ No If yes, list agency name and permit / approval:

12. AS A RESULT OF PROPOSED ACTION WILL EXISTING PERMIT / APPROVAL REQUIRE MODIFICATION?
☐ Yes ☐ No

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE TO THE BEST OF MY KNOWLEDGE

Applicant / Sponsor Name PIARIA Inc. Date: July 26, 2005

Signature

**If the action is a Costal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment**

## PART II - IMPACT ASSESSMENT (To be completed by Lead Agency)

A. DOES ACTION EXCEED ANY TYPE I THRESHOLD IN 6 NYCRR, PART 617.4? If yes, coordinate the review process and use the FULL EAF.
☐ Yes ☑ No

B. WILL ACTION RECEIVE COORDINATED REVIEW AS PROVIDED FOR UNLISTED ACTIONS IN 6 NYCRR, PART 617.6? If No, a negative declaration may be superseded by another involved agency.
☐ Yes ☑ No

C. COULD ACTION RESULT IN **ANY** ADVERSE EFFECTS ASSOCIATED WITH THE FOLLOWING: (Answers may be handwritten, if legible)

C1. Existing air quality, surface or groundwater quality or quantity, noise levels, existing traffic pattern, solid waste production or disposal, potential for erosion, drainage or flooding problems? Explain briefly:

No

C2. Aesthetic, agricultural, archaeological, historic, or other natural or cultural resources; or community or neighborhood character? Explain briefly:

No

C3. Vegetation or fauna, fish, shellfish or wildlife species, significant habitats, or threatened or endangered species? Explain briefly:

No

C4. A community's existing plans or goals as officially adopted, or a change in use or intensity of use of land or other natural resources? Explain briefly:

No

C5. Growth, subsequent development, or related activities likely to be induced by the proposed action? Explain briefly:

No

C6. Long term, short term, cumulative, or other effects not identified in C1-C5? Explain briefly:

No

C7. Other impacts (including changes in use of either quantity or type of energy? Explain briefly:

No

D. WILL THE PROJECT HAVE AN IMPACT ON THE ENVIRONMENTAL CHARACTERISTICS THAT CAUSED THE ESTABLISHMENT OF A CRITICAL ENVIRONMENTAL AREA (CEA)? (If yes, explain briefly:
☐ Yes ☑ No

E. IS THERE, OR IS THERE LIKELY TO BE, CONTROVERSY RELATED TO POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS? If yes explain:
☐ Yes ☑ No

## PART III - DETERMINATION OF SIGNIFICANCE (To be completed by Agency)

**INSTRUCTIONS:** For each adverse effect identified above, determine whether it is substantial, large, important or otherwise significant. Each effect should be assessed in connection with its (a) setting (i.e. urban or rural); (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude. If necessary, add attachments or reference supporting materials. Ensure that explanations contain sufficient detail to show that all relevant adverse impacts have been identified and adequately addressed. If question d of part ii was checked yes, the determination of significance must evaluate the potential impact of the proposed action on the environmental characteristics of the CEA.

☐ Check this box if you have identified one or more potentially large or significant adverse impacts which **MAY** occur. Then proceed directly to the FULL EAF and/or prepare a positive declaration.

☐ Check this box if you have determined, based on the information and analysis above and any supporting documentation, that the proposed action **WILL NOT** result in any significant adverse environmental impacts **AND** provide, on attachments as necessary, the reasons supporting this determination.

Town of New Windspr Planning Board
Name of Lead Agency

Date

James R. Petro, Jr.
Print or Type Name of Responsible Officer in Lead Agency

Chairman
Title of Responsible Officer

Signature of Responsible Officer in Lead Agency

Signature of Preparer (if different from responsible officer)

# *AGENT/OWNER PROXY STATEMENT*
## *(for professional representation)*

for submittal to the:
TOWN OF NEW WINDSOR PLANNING BOARD

Maureen Anne and/or John J. O'Neil, deposes and says that ~~he~~ they resides
(OWNER)

at 109 Chestnut Drive, New Windsor in the County of Orange
(OWNER'S ADDRESS)

and State of New York and that ~~he~~ they is the owner of property tax map

designation number (Sec. 3 Block 1 Lot 15) which is the premises described in the foregoing application and that ~~he~~ they designates:

_____
(Agent Name & Address)

Gregory J. Shaw, P.E.
( Name & Address of Professional Representative of Owner and/or Agent)

as his agent to make the attached application.

***THIS DESIGNATION SHALL BE EFFECTIVE UNTIL WITHDRAWN BY THE OWNER OR UNTIL TWO (2) YEARS FROM THE DATE AGREED TO, WHICH EVER IS SOONER.***

SWORN BEFORE ME THIS:

2nd DAY OF July 2005

SAROJA BHASHYAM
Reg. #01BH6066826
Notary Public, State of New York
Qualified in Orange County
My Commission Expires Feb. 3, 2007

NOTARY PUBLIC

** _____
Owner's Signature (MUST BE NOTARIZED

_____
Agent's Signature (If Applicable)

_____
Professional Representative's Signature

** ***PLEASE NOTE:*** ***ONLY OWNER'S SIGNATURE MUST BE NOTARIZED.***

**THIS PROXY SHALL BE VOID TWO (2) YEARS AFTER AGREED TO BY THE OWNER**

## *TOWN OF NEW WINDSOR PLANNING BOARD*

## *SITE PLAN CHECKLIST*

ITEM

1. ___X___ Site Plan Title
2. ___X___ **Provide 4" wide X 2" high box (IN THE LOWEST RIGHT CORNER OF THE PLAN) for use by Planning Board in affixing Stamp of Approval. (ON ALL PAGES OF SITE PLAN).**

**SAMPLE:** 

3. ___X___ Applicant's Name(s)
4. ___X___ Applicant's Address
5. ___X___ Site Plan Preparer's Name
6. ___X___ Site Plan Preparer's Address
7. ___X___ Drawing Date
8. ___X___ Revision Dates
9. ___X___ Area Map Inset and Site Designation
10. ___X___ Properties within 500' of site
11. ___X___ Property Owners (Item #10)
12. ___X___ Plot Plan
13. ___X___ Scale (1" = 50' or lesser)
14. ___X___ Metes and Bounds
15. ___X___ Zoning Designation
16. ___X___ North Arrow
17. ___X___ Abutting Property Owners
18. ___NA___ Existing Building Locations
19. ___X___ Existing Paved Areas
20. ___X___ Existing Vegetation
21. ___NA___ Existing Access & Egress

**PROPOSED IMPROVEMENTS**

22. X Landscaping
23. X Exterior Lighting
24. NA Screening
25. X Access & Egress
26. X Parking Areas
27. NA Loading Areas
28. X Paving Details (Items 25 - 27)
29. X Curbing Locations
30. X Curbing through section
31. X Catch Basin Locations
32. X Catch Basin Through Section
33. X Storm Drainage
34. X Refuse Storage
35. NA Other Outdoor Storage
36. X Water Supply
37. X Sanitary Disposal System
38. NA Fire Hydrants
39. X Building Locations
40 X Building Setbacks
41. NA Front Building Elevations
42. X Divisions of Occupancy
43. NA Sign Details
44. X Bulk Table Inset
45. X Property Area (Nearest 100 sq. ft.)
46. X Building Coverage (sq. ft.)
47. X Building Coverage (% of total area)
48. X Pavement Coverage (sq. ft.)
49. X Pavement Coverage (% of total area)
50 X Open Space (sq. ft.)
51. X Open Space (% of total area)
52. X No. of parking spaces proposed
53. X No. of parking spaces required

**REFERRING TO QUESTION 9 ON THE APPLICATION FORM,** AIS THIS PROPERTY WITHIN AN AGRICULTURAL DISTRICT CONTAINING A FARM OPERATION OR WITHIN 500 FEET OF A FARM OPERATION LOCATED IN AN AGRICULTURAL DISTRICT, PLEASE NOTE THE FOLLOWING:

54. NA — Referral to Orange County Planning Dept. is required for all applicants filing AD Statement.

55. NA — A disclosure Statement, in the form set below, must be inscribed on all site plan maps prior to the affixing of a stamp of approval, whether or not the Planning Board specifically requires such a statement as a condition of approval.

APrior to the sale, lease, purchase, or exchange of property on this site which is wholly or partially within or immediately adjacent to or within 500 feet of a farm operation, the purchaser or leasee shall be notified of such farm operation with a copy of the following notification.

It is the policy of this State and this community to conserve, protect and encourage the development and improvement of agricultural land for the production of food, and other products, and also for its natural and ecological value. This notice is to inform prospective residents that the property they are about to acquire lies partially or wholly within an agricultural district or within 500 feet of such a district and that farming activities occur within the district. Such farming activities may include, but not be limited to, activities that cause noise, dust and odors.

This list is provided as a guide only and is for the convenience of the Applicant. The Town of New Windsor Planning Board may require additional notes or revisions prior to granting approval.

***PREPARER'S ACKNOWLEDGMENT:***

THE PLAT FOR THE PROPOSED SITE PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THIS CHECKLIST AND THE TOWN OF NEW WINDSOR ORDINANCES, TO THE BEST OF MY KNOWLEDGE.

BY: _____ 7-28-2005
Licensed Professional Date

⌘ ⌘ ⌘ ⌘ ⌘ ⌘ **PLEASE NOTE:** ⌘ ⌘ ⌘ ⌘ ⌘ ⌘

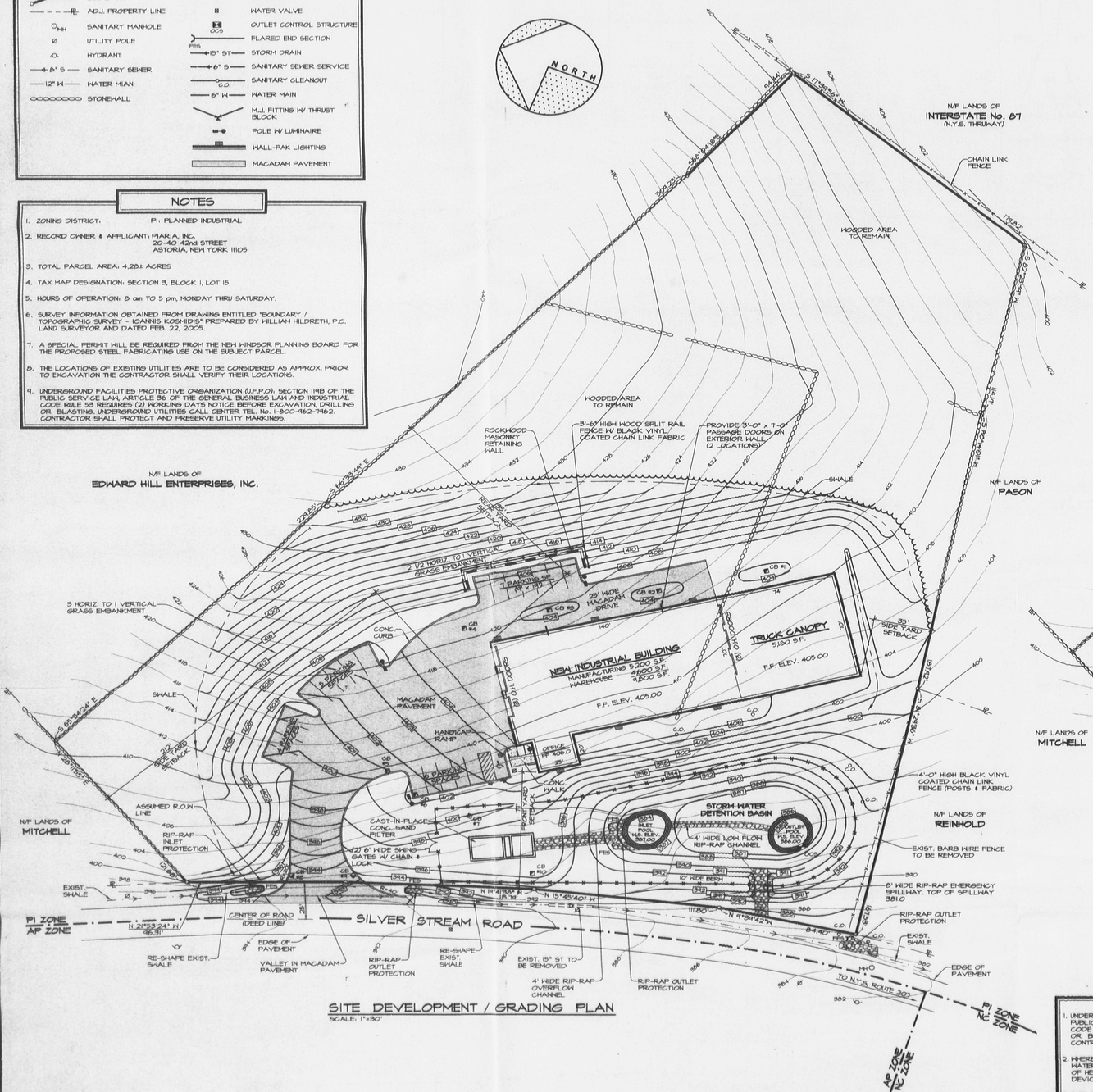
***THE APPLICANT OR THEIR REPRESENTATIVE IS RESPONSIBLE TO KEEP TRACK OF ALL EXPIRATION DATES FOR ANY AND ALL APPROVALS GRANTED TO A PROJECT. EXTENSIONS MUST BE APPLIED FOR PRIOR TO EXPIRATION DATE.***

## LEGEND

| EXISTING | | NEW | |
|---|---|---|---|
| 404 | 2' CONTOUR | 404 | FINISHED GRADE |
| 400 | 10' CONTOUR | CB | CATCH BASIN |
| | BOUNDARY | | HYDRANT |
| | ADJ. PROPERTY LINE | | WATER VALVE |
| MH | SANITARY MANHOLE | OCS | OUTLET CONTROL STRUCTURE |
| | UTILITY POLE | FES | FLARED END SECTION |
| | HYDRANT | 15" ST | STORM DRAIN |
| 8" S | SANITARY SEWER | 6" S | SANITARY SEWER SERVICE |
| 12" W | WATER MAIN | C.O. | SANITARY CLEANOUT |
| | STONEWALL | 6" W | WATER MAIN |
| | | | M.J. FITTING W/ THRUST BLOCK |
| | | | POLE W/ LUMINAIRE |
| | | | WALL-PAK LIGHTING |
| | | | MACADAM PAVEMENT |

## NOTES

1. ZONING DISTRICT: PI: PLANNED INDUSTRIAL
2. RECORD OWNER & APPLICANT: PIARIA, INC.
   20-40 42nd STREET
   ASTORIA, NEW YORK 11105
3. TOTAL PARCEL AREA: 4.28± ACRES
4. TAX MAP DESIGNATION: SECTION 3, BLOCK 1, LOT 15
5. HOURS OF OPERATION: 8 am TO 5 pm, MONDAY THRU SATURDAY.
6. SURVEY INFORMATION OBTAINED FROM DRAWING ENTITLED "BOUNDARY / TOPOGRAPHIC SURVEY - IOANNIS KOSMIDIS" PREPARED BY: WILLIAM HILDRETH, P.C. LAND SURVEYOR AND DATED FEB. 22, 2005.
7. A SPECIAL PERMIT WILL BE REQUIRED FROM THE NEW WINDSOR PLANNING BOARD FOR THE PROPOSED STEEL FABRICATING USE ON THE SUBJECT PARCEL.
8. THE LOCATIONS OF EXISTING UTILITIES ARE TO BE CONSIDERED AS APPROX. PRIOR TO EXCAVATION THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS.
9. UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (U.F.P.O). SECTION 1118 OF THE PUBLIC SERVICE LAW, ARTICLE 36 OF THE GENERAL BUSINESS LAW AND INDUSTRIAL CODE RULE 53 REQUIRES (2) WORKING DAYS NOTICE BEFORE EXCAVATION, DRILLING OR BLASTING. UNDERGROUND UTILITIES CALL CENTER TEL. No. 1-800-962-7962. CONTRACTOR SHALL PROTECT AND PRESERVE UTILITY MARKINGS.




SITE DEVELOPMENT / GRADING PLAN
SCALE: 1"=30'

## ZONING SCHEDULE

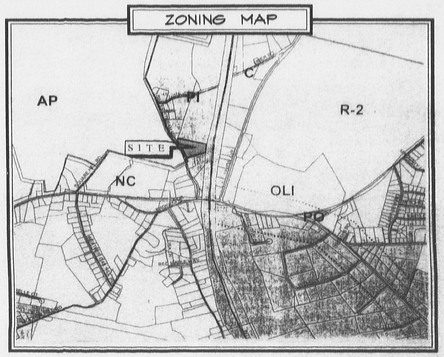
ZONE: PI: PLANNED INDUSTRIAL
BULK REGULATIONS OF PI ZONE - USE: B-3 STEEL FABRICATION *

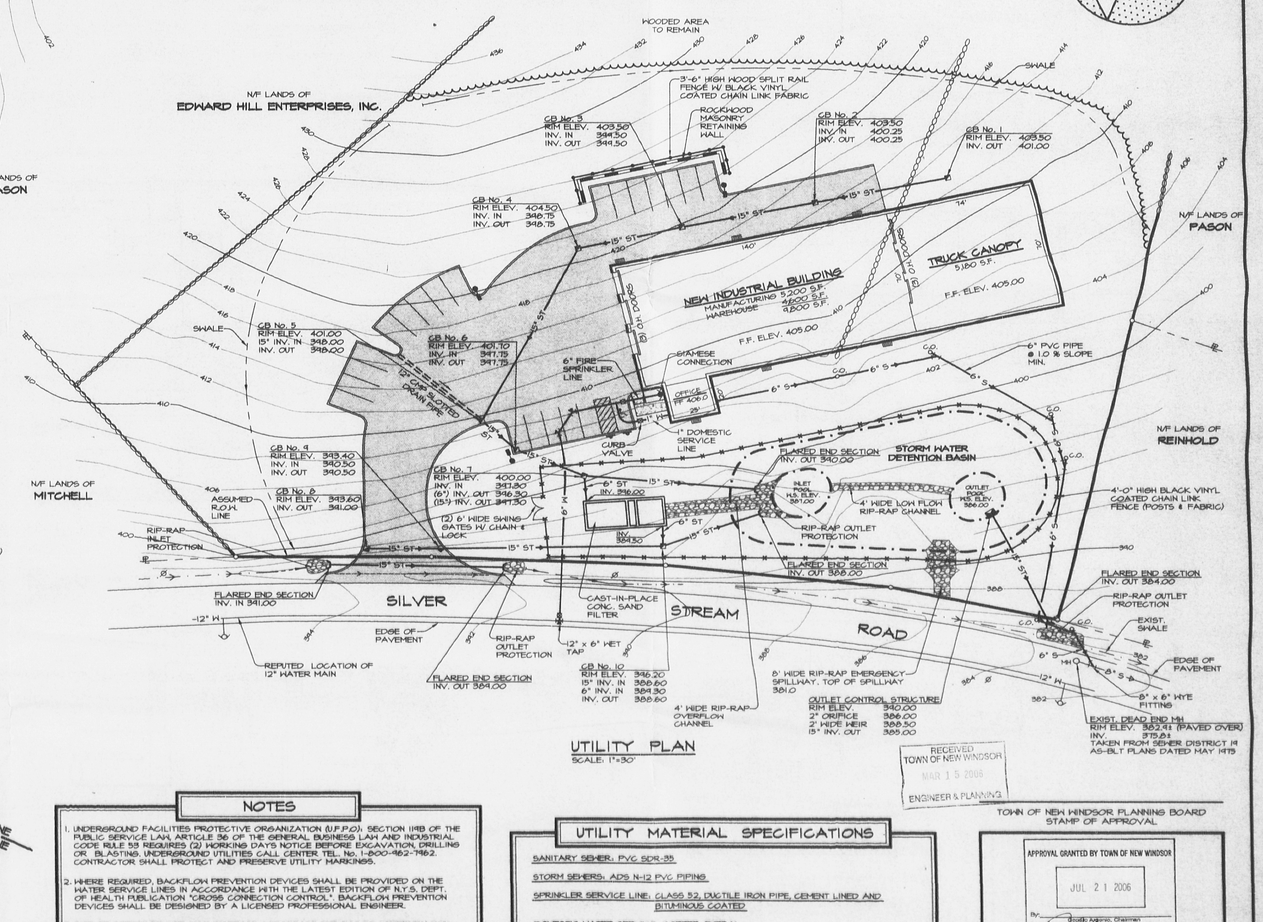
| BULK REGULATIONS: PI ZONE | REQUIRED | PROVIDED |
|---|---|---|
| MIN. LOT AREA | 40,000 S.F. | 186,528 S.F. |
| MIN. LOT WIDTH | 150 FT. | 460 FT. |
| MIN. FRONT YARD DEPTH | 50 FT. | 71 FT. |
| MIN. SIDE YARD - ONE | 15 FT. | 35 FT. |
| MIN. SIDE YARD - BOTH | 40 FT. | 241 FT. |
| MIN. REAR YARD DEPTH | 20 FT. | 135 FT. |
| MIN. STREET FRONTAGE | N/A | N/A |
| BUILDING HEIGHT (12' / FT. OF DISTANCE TO NEAREST LOT LINE - 35 FT.) | 35'-0" | 35'-0" |
| MAX. FLOOR AREA RATIO | 0.60 | 0.08 |
| DEVELOPMENT COVERAGE | 85 % | 16.1 % |

| OFF-STREET PARKING | REQUIRED | PROVIDED |
|---|---|---|
| LIGHT MANUFACTURING AND ASSEMBLY: 1 SPACE PER EACH 2 EMPLOYEES IN MAXIMUM WORK SHIFT OR 1 SPACE PER 400 S.F. OF TOTAL FLOOR AREA, WHICHEVER IS GREATER (9,200 S.F. / 400 S.F. PER SPACE) | 13 SPACES | |
| WAREHOUSE: 1 SPACE PER EACH 2 EMPLOYEES IN MAXIMUM WORK SHIFT OR 1 SPACE FOR EVERY 1,000 S.F. OF TOTAL FLOOR AREA, WHICHEVER IS GREATER (4,800 S.F. / 1,000 S.F. PER SPACE) | 5 SPACES | |
| OFFICE: 1 SPACE PER 150 S.F. OF TOTAL FLOOR AREA (500 S.F. / 150 S.F. PER SPACE) | 4 SPACES | |
| | 22 SPACES | 22 SPACES |

* DENOTES A SPECIAL PERMIT WILL BE REQUIRED FROM PLANNING BOARD

## ZONING MAP




UTILITY PLAN
SCALE: 1"=30'

## NOTES

1. UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (U.F.P.O). SECTION 1118 OF THE PUBLIC SERVICE LAW, ARTICLE 36 OF THE GENERAL BUSINESS LAW AND INDUSTRIAL CODE RULE 53 REQUIRES (2) WORKING DAYS NOTICE BEFORE EXCAVATION, DRILLING OR BLASTING. UNDERGROUND UTILITIES CALL CENTER TEL. No. 1-800-962-7962. CONTRACTOR SHALL PROTECT AND PRESERVE UTILITY MARKINGS.
2. WHERE REQUIRED, BACKFLOW PREVENTION DEVICES SHALL BE PROVIDED ON THE WATER SERVICE LINES IN ACCORDANCE WITH THE LATEST EDITION OF N.Y.S. DEPT. OF HEALTH PUBLICATION "CROSS CONNECTION CONTROL". BACKFLOW PREVENTION DEVICES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER.
3. SIZE OF SPRINKLER LINE MAY INCREASE / DECREASE SUBJECT TO DETERMINATION BY SPRINKLER CONTRACTOR.

## UTILITY MATERIAL SPECIFICATIONS

SANITARY SEWER: PVC SDR-35
STORM SEWERS: ADS N-12 PVC PIPING
SPRINKLER SERVICE LINE: CLASS 52, DUCTILE IRON PIPE, CEMENT LINED AND BITUMINOUS COATED
DOMESTIC WATER SERVICE: COPPER, TYPE K

RECEIVED
TOWN OF NEW WINDSOR
MAR 15 2006
ENGINEER & PLANNING

TOWN OF NEW WINDSOR PLANNING BOARD STAMP OF APPROVAL

APPROVAL GRANTED BY TOWN OF NEW WINDSOR
JUL 21 2006
By: Angelo Apicella, Chairman
By: Myra Mason, Secretary

DRAWINGS ARE INVALID AND INCOMPLETE UNLESS ACCOMPANIED BY DRAWINGS 1 OF 6 THROUGH 6 OF 6.


**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550




| ISSUE | REVISION | DATE |
|---|---|---|
| 2 | PLANNING BOARD COMMENTS | 3-14-2006 |
| 1 | FIRE INSPECTOR & PLANNING BOARD COMMENTS, SAND FILTER | 11-4-2005 |

Drawn By: J.R.J.
Checked By: G.J.S.
Scale: 1"=30'
Date: 8-26-2005

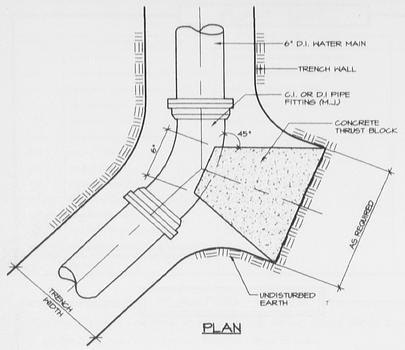
Drawing: SITE DEVELOPMENT / GRADING AND UTILITY PLAN

Project: NEW STEEL FABRICATING FACILITY FOR PIARIA INC.
SILVER STREAM ROAD TOWN OF NEW WINDSOR, N.Y.

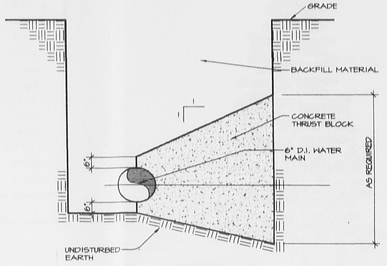
1 OF 6

Project No. 0502

05-27

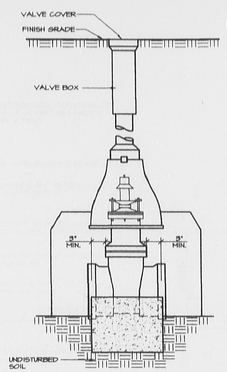



PLAN

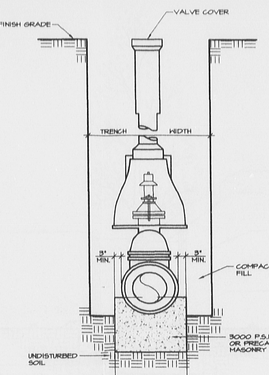



SECTION

## THRUST BLOCK
NOT TO SCALE

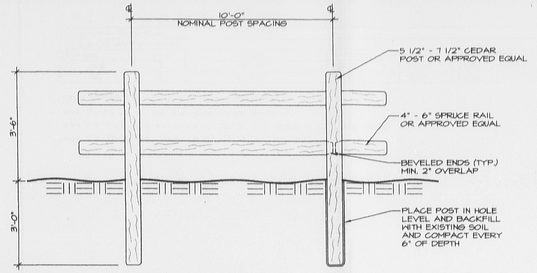



SIDE VIEW



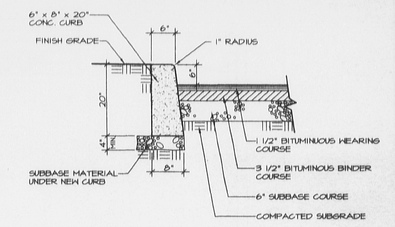

FRONT VIEW

## WATER VALVE INSTALLATION DETAIL
NOT TO SCALE



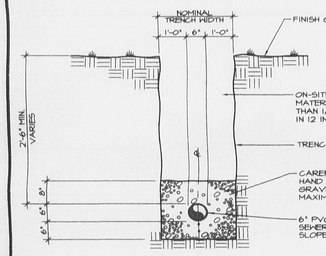

NOTE: INSTALL 1 1/4" x 9" x 48" BLACK VINYL COATED CHAIN LINK FABRIC TO UPHILL SIDE OF SPLIT RAIL FENCE.

## SPLIT RAIL FENCE
NOT TO SCALE

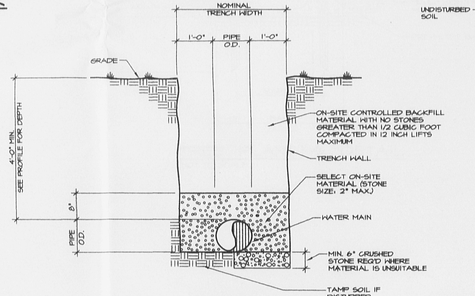



NOTE:
1. 1/2" PRE-MOLDED EXPANSION JOINTS, 10' O.C.

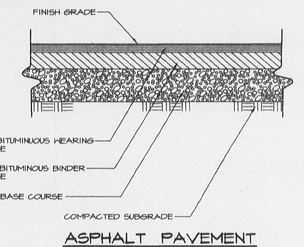
## CURB
NOT TO SCALE



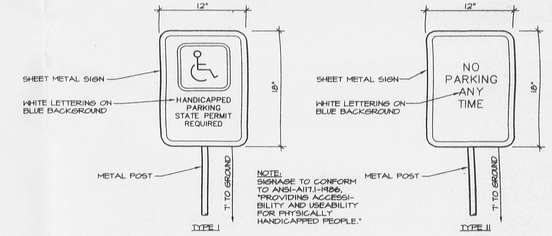

## SANITARY SEWER TRENCH DETAIL - ON - SITE
NOT TO SCALE



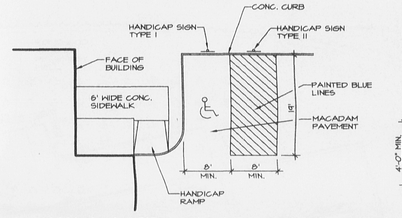

## WATER MAIN EXCAVATION
NOT TO SCALE



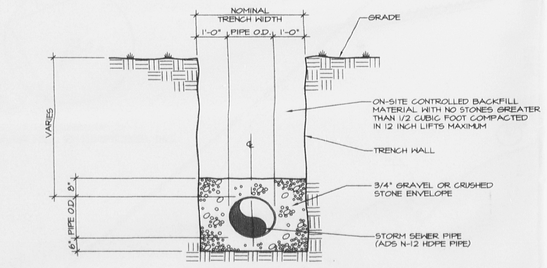

## ASPHALT PAVEMENT
NOT TO SCALE



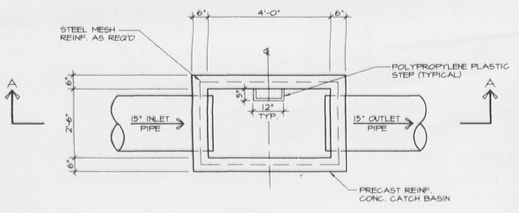

NOTE: SIGNAGE TO CONFORM TO ANSI-A117.1-1986, "PROVIDING ACCESSIBILITY AND USEABILITY FOR PHYSICALLY HANDICAPPED PEOPLE."



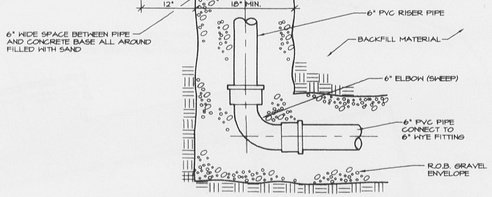

## HANDICAPPED SIGN & SPACE DETAIL
NOT TO SCALE



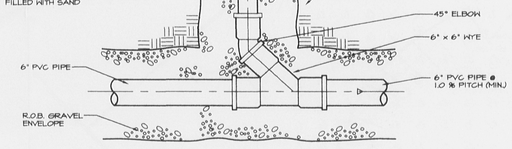

## STORM SEWER TRENCH DETAIL - ON - SITE -
NOT TO SCALE



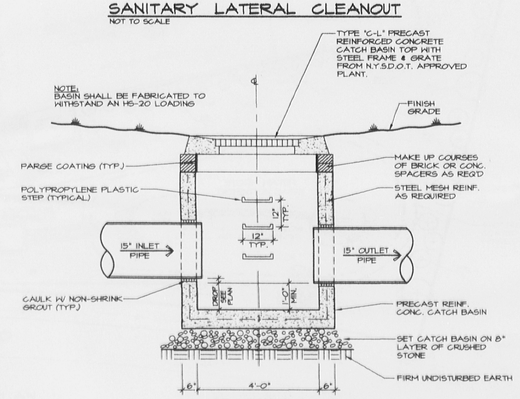

PLAN




## SANITARY LATERAL CLEANOUT
NOT TO SCALE

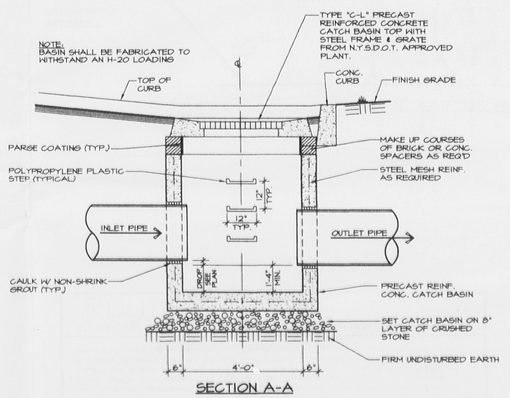



## SANITARY LATERAL IN - LINE CLEANOUT
NOT TO SCALE

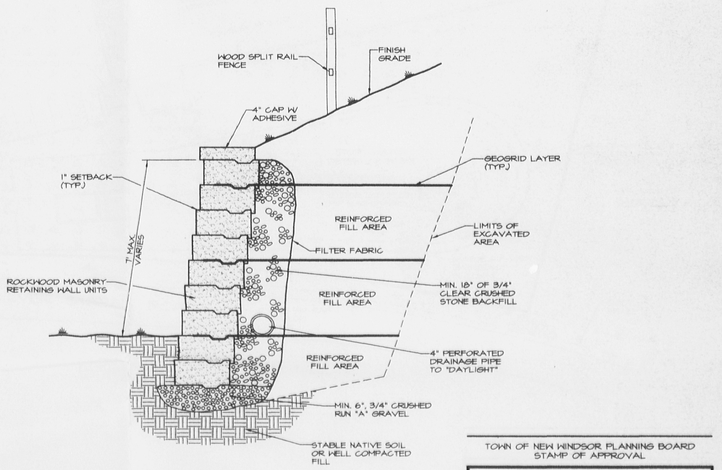



SECTION A-A

## CATCH BASIN DETAIL
NOT TO SCALE




SECTION A-A




## ROCKWOOD MASONRY RETAINING WALL
NOT TO SCALE

NOTES:
1. VERIFY MINIMUM ALLOWABLE BEARING PRESSURE OF 3,000 p.s.f.
2. COMPACTION SHALL BE 95% STANDARD PROCTOR.
3. NUMBER AND LENGTH OF GEOGRID LAYERS SHALL BE AS RECOMMENDED BY ROCKWOOD RETAINING WALLS, INC.

TOWN OF NEW WINDSOR PLANNING BOARD STAMP OF APPROVAL

APPROVAL GRANTED BY TOWN OF NEW WINDSOR
JUL 21 2006
By: [illegible], Chairman
By: [illegible], Secretary

DRAWINGS ARE INVALID AND INCOMPLETE UNLESS ACCOMPANIED BY DRAWINGS 1 OF 6 THROUGH 6 OF 6.


**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550




| ISSUE | REVISION | DATE |
|---|---|---|
| 2 | NO REVISION | 3-14-2006 |
| 1 | RETAINING WALL DETAIL | 11-9-2005 |

Drawn By: J.R.J.
Checked By: G.J.S.
Scale: AS SHOWN
Date: 8-26-2005

Drawing: SITE DEVELOPMENT AND UTILITY DETAILS

Project: NEW STEEL FABRICATING FACILITY FOR PIARIA INC.
SILVER STREAM ROAD TOWN OF NEW WINDSOR, N.Y.

2 OF 6

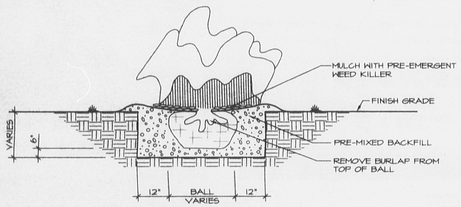
Project No. 0502

## PLANT LIST

| SYMBOL | BOTANICAL NAME | COMMON NAME | QUANTITY | SIZE |
|---|---|---|---|---|
| AR | Acer Rubrum | October Glory Red Maple | 4 | 2-2 1/2 cal. |
| BX | Buxus Sempervirens 'Winter Gem' | Winter Gem Boxwood | 4 | 5 gal. |
| EA | Euonymus Alatus Compactus | Compact Burning Bush | 3 | 5 gal. |
| IG | Ilex Glabra | Inkberry Holly | 5 | 3 gal. |
| JGC | Juniperus Chinesis Aurea | Gold Coast Juniper | 6 | 5 gal. |
| JHB | Juniperus Scopulorm | 'Wichita Blue' Juniper | 3 | 7 gal. |
| PA | Picea Abies | Norway Spruce | 9 | 6'-7' |
| PC | Prunus Cistena | Sand Cherry | 3 | 2'-3' |
| PG | Picea Pungens | Colorado Blue Spruce | 6 | 6'-7' |
| PYA | Pyrus Calleryana 'Aristocrat' | Aristocrat Pear | 5 | 2-2 1/2 cal. |
| RP_JM | Rhododendron P.J.M' | P.J.M Rhododendron | 5 | 24"-30" |
| VT | Viburnum Plicatum Shasta | Shasta Viburnum | 5 | 3'-3 1/2' |
| ERNMX - 126 | Retention Basin Floor Seeding Low Maintenance Grass-like Species | | - | 20 lb. per acre |

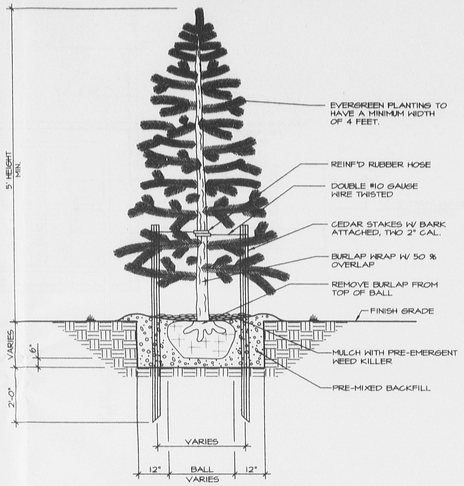
## PLANTING NOTES

1. TOP SOIL DEPTHS FOR BEDS: 4", FOR LAWN AND GROUND COVER AREAS: 2" MIN.
2. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO WORK.
3. PRIOR TO PLANTING, CONTRACTOR SHALL FIELD MODIFY LANDSCAPING SO THAT NO TREE IS WITHIN 10 FEET OF A WATER LINE, SANITARY SEWER LINE, OR A STORM DRAINAGE LINE.
4. CONTRACTOR SHALL FIELD MODIFY LANDSCAPING SO AS TO NOT CONFLICT WITH SITE LIGHTING.
5. ALL PLANTS MUST MEET AMERICAN ASSOCIATION OF NURSERYMENS STANDARDS.
6. ALL SEEDED AREAS SHALL BE COVERED WITH STRAW AND WATERED FOR A MINIMUM OF TWO WEEKS.
7. ALL PLANT BEDS SHALL BE SLIGHTLY MOUNDED.

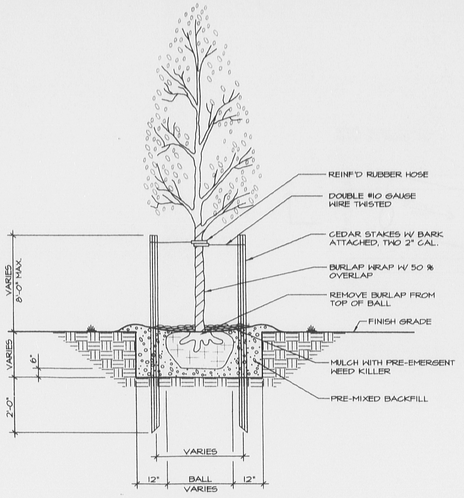



EVERGREEN & DECIDUOUS SHRUBS

### SHRUB PLANTING DETAIL
NOT TO SCALE



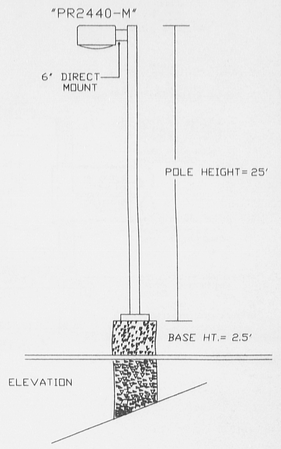

### TREE PLANTING DETAIL
NOT TO SCALE

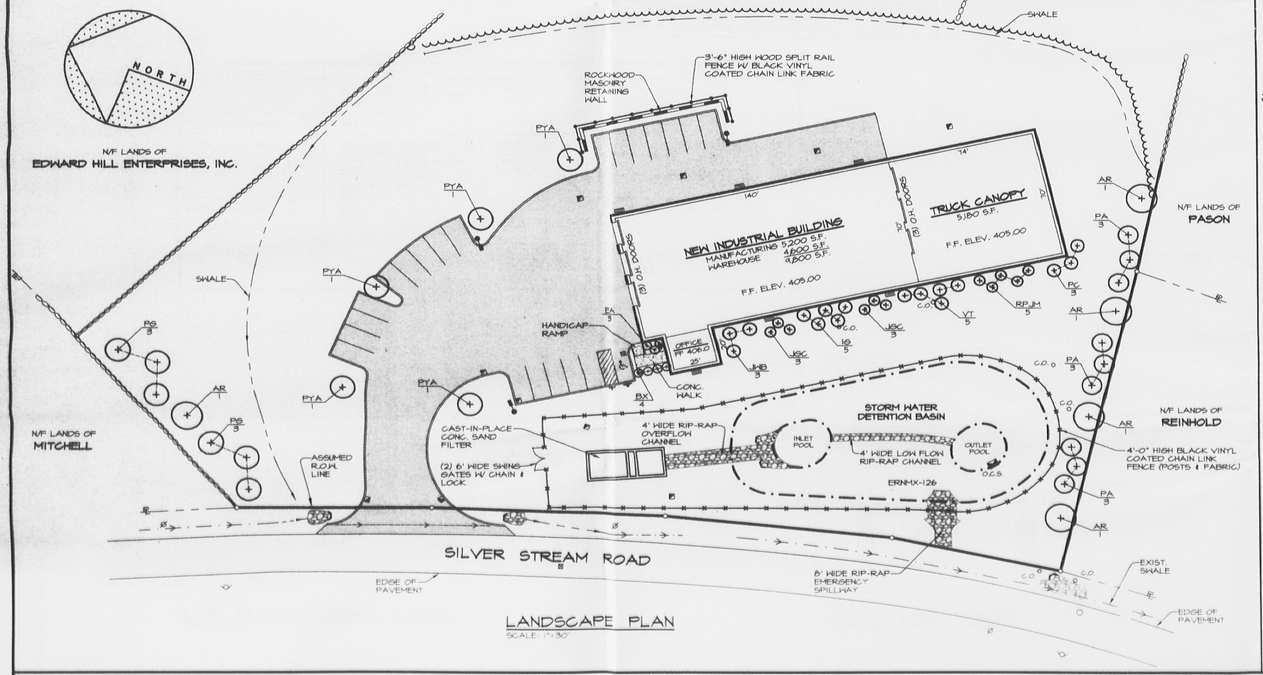



### TREE PLANTING DETAIL
NOT TO SCALE

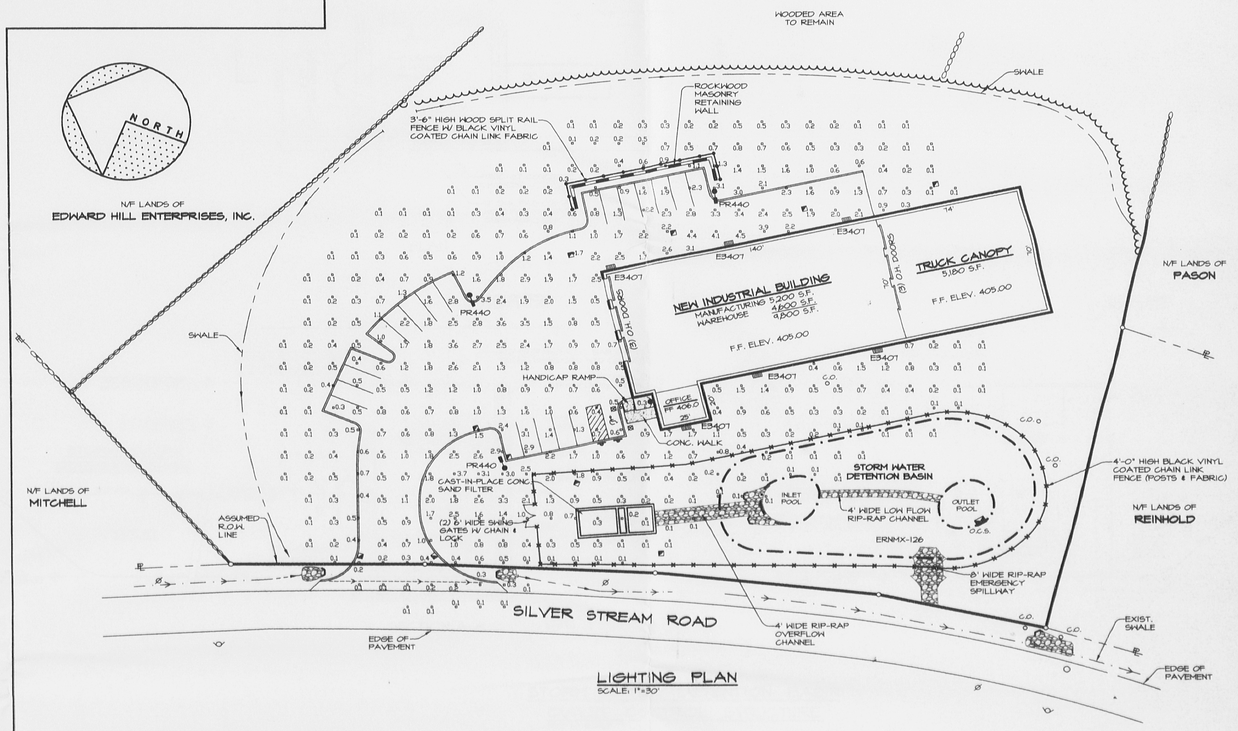
| Luminaire Schedule | | | | | | |
|---|---|---|---|---|---|---|
| Project: All Projects | | | | | | |
| Symbol | Qty | Label | Arrangement | Lumens | LLF | Description |
| ■-● | 3 | PR440 | SINGLE | 33100 | 0.650 | PR2440-M (400w mh) |
| ▭ | 6 | E3407 | SINGLE | 5000 | 0.650 | E3407-D (70w mh) |

(3) PS4S25C1BZ 25 x 4 x .125 Square steel poles
■■■ Poles meet 110 mph sustained winds
■■■ PR fixtures mounted at 27.5' (25' pole + 2.5' afg base) w/no tilt
■■■ E3 fixtures mounted at 12' (on the wall)




### LANDSCAPE PLAN
SCALE: 1"=30'




### LIGHTING PLAN
SCALE: 1"=30'

**RUUD LIGHTING**
800.236.7000 USA <www.ruudlighting.com> 905.671.1991 CAN

Illumination results shown on this lighting design are based on project parameters provided to Ruud Lighting used in conjunction with luminaire test procedures conducted under laboratory conditions. Actual project conditions differing from these design parameters may affect field results. The customer is responsible for verifying compliance with any applicable electrical, lighting, or energy code.

TOWN OF NEW WINDSOR PLANNING BOARD STAMP OF APPROVAL

APPROVAL GRANTED BY TOWN OF NEW WINDSOR
JUL 21 2006
By _____ Chairman
By _____ Secretary

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**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550




| ISSUE | REVISION | DATE |
|---|---|---|
| 2 | PLANNING BOARD COMMENTS | 9-14-2006 |
| 1 | FIRE INSPECTOR & PLANNING BOARD COMMENTS, SAND FILTER | 11-4-2005 |

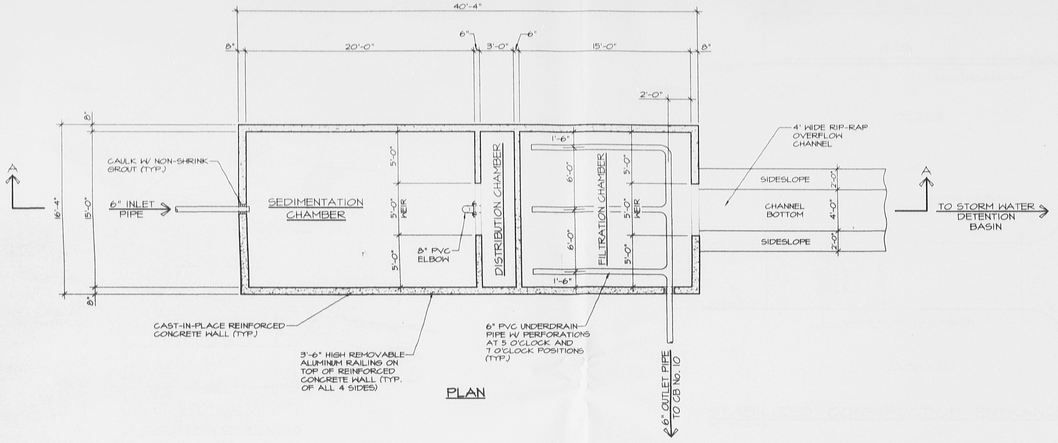
Drawn By: J.R.J.
Checked By: G.J.S.
Scale: 1"=30'
Date: 8-26-2005

Drawing: LANDSCAPE PLAN & DETAILS AND LIGHTING PLAN & DETAILS

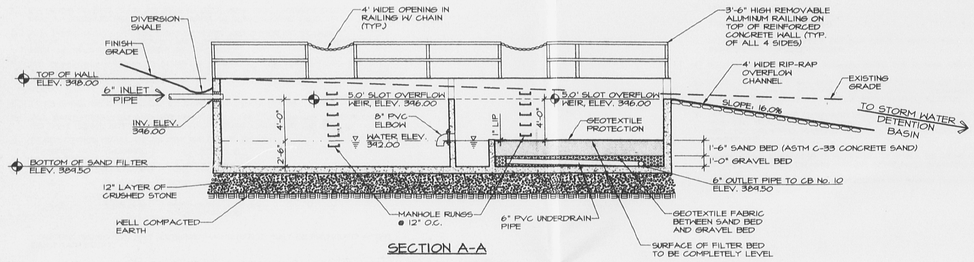
Project: NEW STEEL FABRICATING FACILITY FOR PIARIA INC.
SILVER STREAM ROAD TOWN OF NEW WINDSOR, N.Y.

3 OF 6

Project No. 0502




PLAN

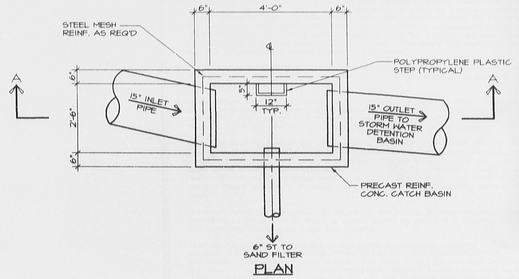



SECTION A-A

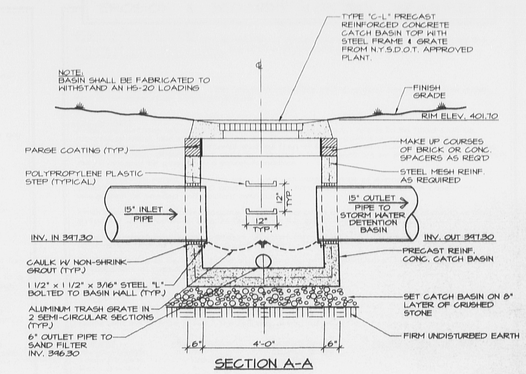
## SAND FILTER
NOT TO SCALE

NOTE:
PRIOR TO THE CONSTRUCTION OF THE CONCRETE CHAMBER, THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK TO PREPARE DESIGN CALCULATIONS AND DRAWINGS OF THE CHAMBER STRUCTURE. DESIGN DRAWINGS SHALL BE SUBMITTED FOR APPROVAL TO THE NEW WINDSOR BUILDING INSPECTOR.

| PARAMETER | SPECIFICATIONS | SIZE | NOTES |
|---|---|---|---|
| SAND | CLEAN AASHTO M-6 OR ASTM C-33 CONCRETE SAND SAND | 0.02" TO 0.04" | |
| UNDERDRAIN GRAVEL | AASHTO M-43 No. 67 | 0.25" TO 0.75" | |
| GEOTEXTILE FABRIC | ASTM D-751 (PUNCTURE STRENGTH - 125 lb.) ASTM D-1117 (MULLEN BURST STRENGTH - 400 psi) ASTM D-1682 (TENSILE STRENGTH - 300 lb.) | 0.08" THICK EQUIVALENT OPENING SIZE OF #80 SIEVE | MUST MAINTAIN 125 gpm per sq. ft. FLOW RATE |
| UNDERDRAIN PIPING | ASTM D-1785 OR AASHTO M-278 | 6" RIGID SCHEDULE 40 PVC | 3/8" PERF. 6" ON CENTER, 4 HOLES PER ROW MINIMUM OF 3" OF GRAVEL OVER PIPES, NOT NECESSARY UNDERNEATH PIPES |
| CONCRETE (CAST-IN-PLACE) | f'c = 3500 psi, NORMAL WEIGHT, AIR-ENTRAINED, REINFORCING TO MEET ASTM 615-60 | N/A | ON-SITE TESTING OF POURED-IN-PLACE CONCRETE REQUIRED, 28 DAY STRENGTH AND SLUMP TEST |

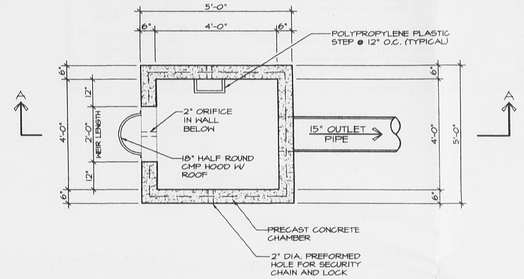



PLAN

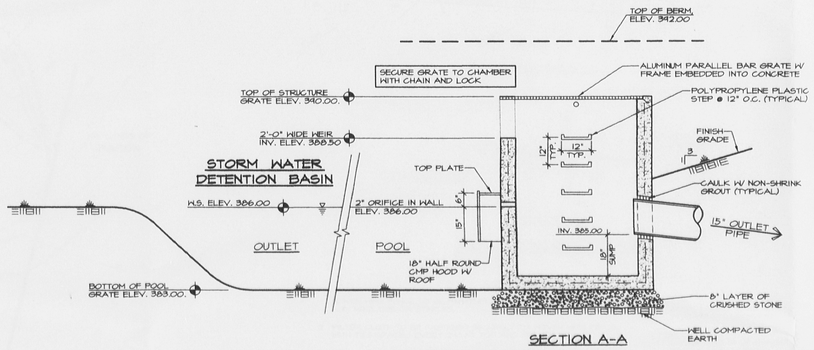



SECTION A-A

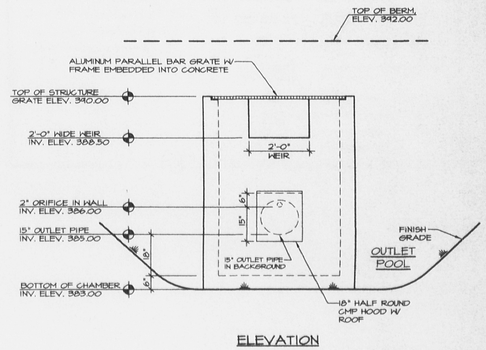
## CATCH BASIN No. 7 DETAIL
NOT TO SCALE




PLAN

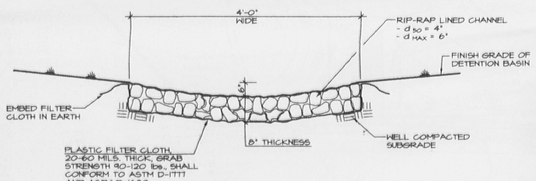



SECTION A-A

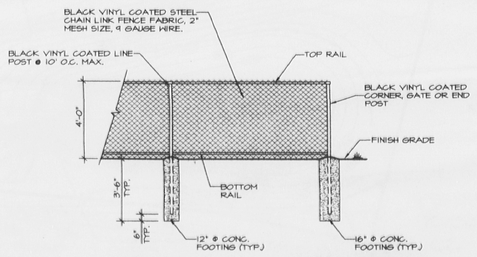



ELEVATION

## STORM WATER DETENTION BASIN
## OUTLET CONTROL STRUCTURE
NOT TO SCALE




## LOW FLOW CHANNEL DETAIL
NOT TO SCALE




## CHAIN LINK FENCE
NOT TO SCALE

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JUL 21 2006
By: Chairman
By: Secretary

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|---|---|---|
| 1 | NO REVISION | 3-14-2006 |

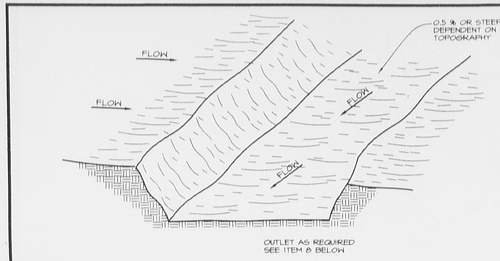
Drawn By: J.R.J.
Checked By: G.J.S.
Scale: AS SHOWN
Date: 11-9-2005

Drawing: SAND FILTER AND STORM SEWER DETAILS

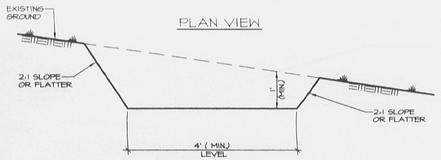
Project: NEW STEEL FABRICATING FACILITY FOR PIARIA INC.
SILVER STREAM ROAD TOWN OF NEW WINDSOR, N.Y.

4 OF 6

Project No. 0502




PLAN VIEW




SECTION

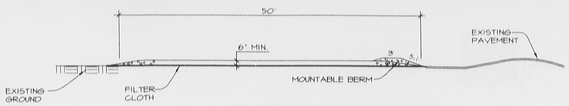
CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM DISTURBED AREAS SHALL BE CONVEYED TO A STORM INLET SEDIMENT TRAP.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE CHART BELOW:

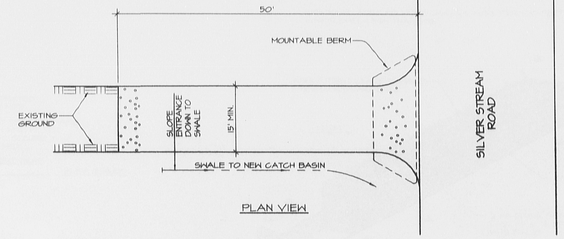
| TYPE OF TREATMENT | CHANNEL GRADE | SWALE A (5 AC. OR LESS) |
|---|---|---|
| A-1 | 0.5-3.0 % | SEED AND STRAW MULCH |
| A-2 | 3.1-5.0 % | SEED AND STRAW MULCH |
| A-3 | 5.1-8.0 % | SEED USING JUTE OR EXCELSIOR, SOD |

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

## TEMPORARY SWALE DETAIL
NOT TO SCALE




PROFILE




PLAN VIEW

## STABILIZED CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - FIFTY (50) FEET
3. THICKNESS - SIX (6) INCHES.
4. WIDTH - FIFTEEN (15) FEET, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE DIRECTED TO A SWALE DISCHARGING TO A SEDIMENT TRAPPING DEVICE. PROVIDE A MOUNTABLE BERM WITH 5:1 SLOPES.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO ROADWAY MUST BE REMOVED IMMEDIATELY.
8. WHEN VEHICLE WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

## CONSTRUCTION SEQUENCE

1. Review the Erosion And Sediment Control Plan to identify the areas of disturbance and those areas that are scheduled to remain undisturbed. Limit site disturbance at any time to the smallest area possible.
2. Prior to commencing construction activities, a licensed surveyor must flag the limits of disturbance necessary to develop the site and clearly delineate the project boundary lines to protect adjacent properties. Identify and protect those trees which can remain.
3. In the area designated on the Erosion And Sediment Control Plan, construct a Stabilized Construction Entrance to mitigate the potential of vehicles tracking sediment onto local roads. Restrict traffic to this one access point. Perform periodic inspections and maintenance of the Stabilized Construction Entrance including washing, top-dressing with additional stone, reworking, and compaction. Plan for periodic street cleaning to remove any sediment that may have been tracked off-site. Transport the removed sediment to a suitable disposal area where it can be stabilized.
4. Clear and grub those portions of the site that are scheduled for development. Stockpile on the lot the excavated topsoil and excessive quantities of subsurface soil, and protect stockpiled material with silt fence.
5. In the areas indicated on the Erosion And Sediment Control Plan, construct the temporary diversion swales and direct stormwater to Silver Stream Road and away from construction activities. Place straw bale dikes across ends of diversion swales to contain sediment. Remove sediment and replace straw bale dikes on a monthly basis.
6. Regrade that portion of the site to allow the installation of the Sedimentation Trap, Emergency Spillway, and outlet piping. Regrade site in defined segments to allow the immediate installation of erosion control measures for that segment. Install silt fences at the base of all disturbed embankments. Within 7 days of completing rough grading, temporarily seed with hay mulch all embankments and disturbed areas. Haul excess material off-site to a point of legal disposal. Avoid grading activities during the rainy season (November through March).
7. Upon obtaining subgrade elevations, install the storm drainage system consisting of catch basins and piping. Modify the five catch basins as per Catch Basin Sediment Trap, and install the remaining Temporary Diversion Swales.
8. When excavating soils inclusive of the building foundation material, transport the soil to a location that will be vegetated. Piles should be situated so that sediment does not run onto the roadway or adjoining properties. Soil piles should be seeded and circled with silt fence until the soil is either replaced or removed. Backfill foundation walls as soon as possible. After backfilling, grade or remove excess soil from the site quickly to eliminate sediment loss from surplus fill.
9. Install remaining site utilities and complete final grading of the lot. Finish grading of the Sediment Trap to the dimensions required for the Storm Water Detention Pond. Remove perforated riser, install Outlet Control Structure, and finalize rip-rap Emergency Spillway. Install Sand Filter with inlet piping, outlet piping and overflow channel.
10. Stabilization measures must be initiated as soon as practicable, but in no case more than 14 days after the construction activity has ceased. In frozen ground conditions, stabilization measures must be initiated as soon as practicable.
11. Maintain erosion and sediment control practices through regular inspections. After initial groundbreaking, the Owner or its representative shall conduct site inspections at least once every 7 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater.
12. After final grading of the lot, spread stockpiled topsoil and permanently seed and hay mulch all disturbed surfaces. Apply seed mix and hay mulch to approximately 2 inches in thickness. If necessary, topsoil will be imported to the site for stabilization and landscaping uses. Imported soils will be seeded after two weeks storage to promote vegetative growth and its perimeter protected with silt fence. Do not remove Soil Erosion And Sediment Control measures until 30 days past stabilization

## EROSION & SEDIMENT CONTROL MEASURES

Temporary Diversion Swales
-Temporary diversion swales will be installed in the locations indicated on the drawing for the purpose of diverting stormwater. Swale shall be maintained until the regraded area is stabilized with permanent seeding.

Silt Fence
-Silt fences shall be installed in the locations specified above, around topsoil stockpile areas, and at the base of all disturbed slopes.

Land Grading
-Finish land surfaces will be graded as indicated on the plans. Areas to be filled shall be cleared, grubbed, and stripped of topsoil. Remove trees, vegetation, roots or other objectionable material. Fill material shall be free of brush, rubbish, rocks, logs, stumps, building debris, and other objectionable material. Frozen material shall not be placed in the fill nor shall the fill material be placed on a frozen foundation.

-Unless otherwise noted, temporary seed bare soil within 15 days of exposure unless construction will begin within 30 days. If construction is suspended, or sections completed, areas shall be seeded and mulched immediately.

-Finish grading shall contain adequate gradients so as to prevent water from standing on the surface of lawns for more than 24 hours after the end of a rainfall.

-Topsoil required for the establishment of vegetation will be stockpiled in amount necessary to complete finished grading of all exposed, non-sodded, areas.

-Areas which are to be topsoiled shall be scarified to a minimum depth of three inches prior to placement of topsoil.

Dust Control
-Construction operations shall be scheduled to minimize the amount of area disturbed at one time. Buffer areas of vegetation shall be left where indicated. The site can be sprinkled with water until the surface is wet. The following spray adhesives can be used on mineral soils:

| Material | Water Dilution | Type of nozzle | Apply Gallons per acre |
|---|---|---|---|
| Acrylic Polymer | 4:1 | Coarse Spray | 300 |
| Latex Emulsion | 12.5:1 | Fine Spray | 235 |
| Resin in water | 4:1 | Fine Spray | 300 |

Temporary And Permanent Seedings
-Seeding preparation includes removal of debris and obstacles such as rocks and stumps, scarify soil if compacted. Adjust pH to 6.0 with lime, and fertilize with 600 lbs of 5-10-10 or equivalent per acre. Within 14 days after construction activity ceases on any particular area of the site, all disturbed areas where there will not be construction for longer than 21 days shall be temporarily seeded and mulched to minimize erosion and sediment loss.

-Apply permanent seeding consisting of :

| | |
|---|---|
| Empire birdsfoot trefoil or common white clover | 5 lbs per acre |
| Plus tall fescue | 20 lbs per acre |
| Plus Ryegrass | 5 lbs per acre |

-Apply temporary seeding consisting of Ryegrass (annual or perennial) at 30 lbs per acre.

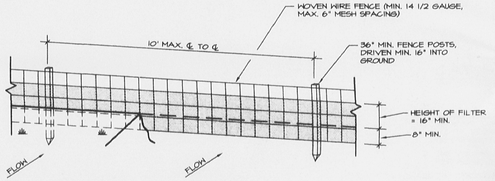
-The optimum time for permanent seeding is in the spring from March 21 through May 20, and in late summer and early fall from August 25 to October 15. Permanent seedings may be made any time of year if properly mulched and adequate moisture is provided. Broadcasting, drilling with coiltpack type seeder or hydroseeding are acceptable.

Topsoil/Mulching
-Where vegetation will be established, preserve and apply existing topsoil and friable fine textured subsoils that are stripped during excavation. Complete rough grading and final grading, allowing for depth of topsoil to be added. Scarify all compact, slow permeable, medium and fine textured subsoil areas. In soil areas that are steeper than 5 percent, scarify at approximately right angles to the slope. Remove refuse, woody plant parts, stones over 3 inches in diameter, and other litter.

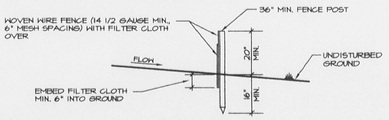
-Topsoil shall have a minimum of 2 percent, and a maximum of 6 percent by weight of fine textured stable organic material. Topsoil shall have not less than 20 percent fine textured material (passing the No. 200 sieve) and not more than 15 percent clay. Topsoil shall be relatively free of stones over 1 1/2 inches in diameter.

-Topsoil shall be placed at a uniform depth of 2 inches for the steep slopes, and 4 inches for the lawn areas. Topsoil shall not be placed when it is partly frozen, muddy, nor on frozen slopes or over ice, snow, or standing water. Topsoil placed and graded on slopes steeper than 5 percent shall be promptly fertilized, seeded, mulched and stabilized by "tracking" with suitable equipment.

-If soil is compacted or crusted, surface should be loosened to at least two inches by disking or other suitable methods. Straw mulch (small grain) is preferred applied at an application rate of 2 tons per acre, and anchored with wood fiber mulch (hydromulch) at 500-750 lbs. per acre. The wood fiber mulch must be applied through a hydroseeder immediately after mulching.




PERSPECTIVE VIEW




SECTION

## SILT FENCE DETAIL
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS:
STEEL EITHER "T" OR "U" TYPE OR 2" HARDWOOD

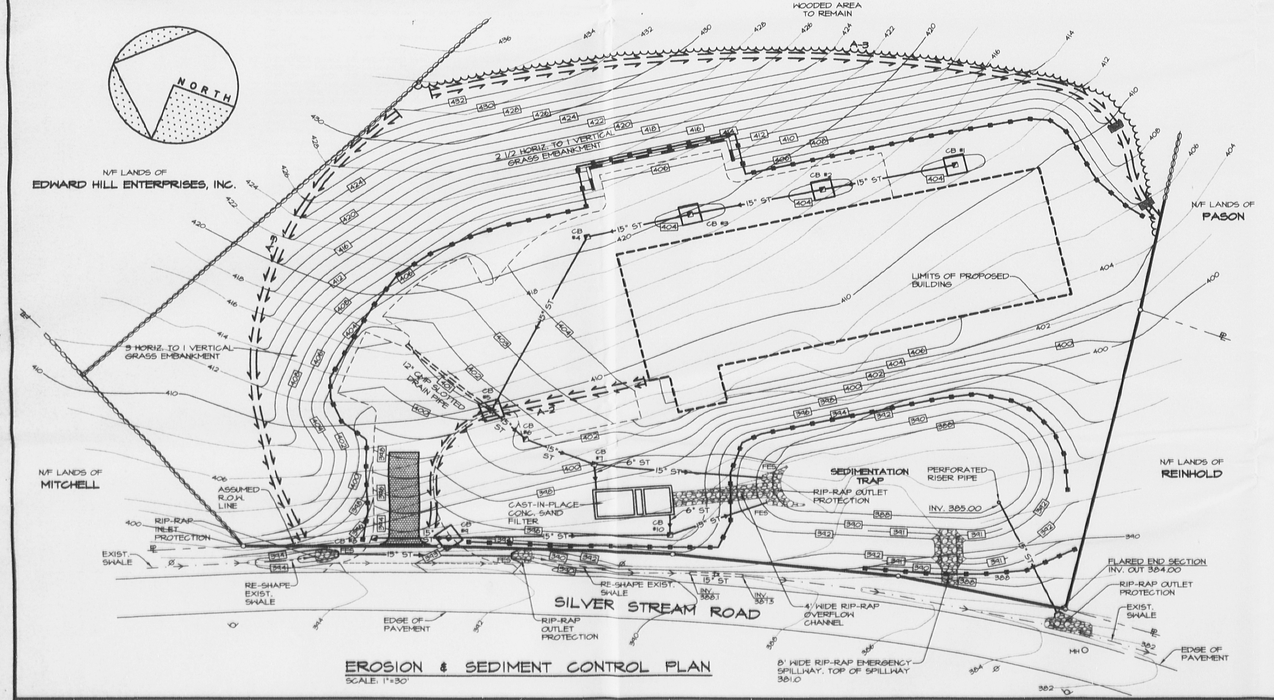
FENCE:
WOVEN WIRE, 14 1/2 GUAGE 6" MAX. MESH OPENING

FILTER CLOTH:
FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT:
GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

## LEGEND

| EXISTING | | NEW | |
|---|---|---|---|
| 402 | 2' CONTOUR | | SILT FENCE |
| 400 | 10' CONTOUR | | TEMPORARY DIVERSION SWALE |
| | WOODED LINE | | CATCH BASIN SEDIMENT TRAP |
| | STONEWALLS | | STABILIZED CONSTRUCTION ENTRANCE |
| | | | STRAW BALE |
| 404 | | 404 | FINISHED GRADE |
| | | CB | CATCH BASIN |
| 15" ST | | 15" ST | STORM SEWER |




EROSION & SEDIMENT CONTROL PLAN
SCALE: 1"=30'

TOWN OF NEW WINDSOR PLANNING BOARD STAMP OF APPROVAL

APPROVAL GRANTED BY TOWN OF NEW WINDSOR
JUL 21 2006
By: Chairman, Planning Board
By: Secretary, Planning Board

DRAWINGS ARE INVALID AND INCOMPLETE UNLESS ACCOMPANIED BY DRAWINGS 1 OF 6 THROUGH 6 OF 6.


Shaw Engineering
Consulting Engineers
744 Broadway Newburgh N.Y. 12550



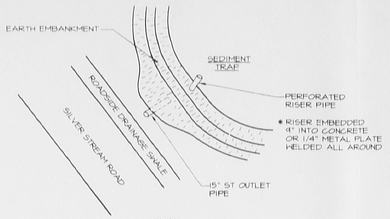

| ISSUE | REVISION | DATE |
|---|---|---|
| 2 | PLANNING BOARD COMMENTS | 3-14-2006 |
| 1 | CONSTRUCTION SEQUENCE | 11-4-2005 |

Drawn By: J.R.J.
Checked By: G.J.S.
Scale: 1"=30'
Date: 8-26-2005

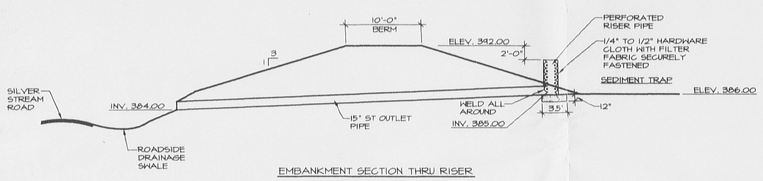
Drawing: EROSION & SEDIMENT CONTROL PLAN, DETAILS AND SPECIFICATIONS
Project: NEW STEEL FABRICATING FACILITY FOR PIARIA INC.
SILVER STREAM ROAD TOWN OF NEW WINDSOR, N.Y.

5 OF 6

Project No. 0502




PLAN




EMBANKMENT SECTION THRU RISER

SIZE OF PIPE NEEDED:
BARREL DIAMETER; 15"
RISER DIAMETER; 18"

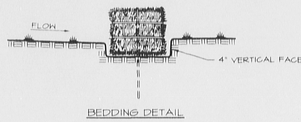
NOTE:
CONSTRUCTION SPECIFICATION SHOULD BE ATTACHED TO THIS DETAIL TO COMPLETE DESIGN.

MAXIMUM DRAINAGE AREA: 5 ACRES

## SEDIMENT TRAP
NOT TO SCALE

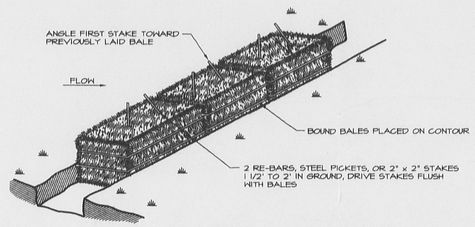
CONSTRUCTION SPECIFICATIONS

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED TO 95% DENSITY (ASTM 1557)
3. VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
4. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
5. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
7. THE STRUCTURE SHALL BE REMOVED AND AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
8. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.
9. THE TOP 2/3 OF THE RISER SHALL BE PERFORATED WITH ONE (1) INCH DIAMETER HOLES OR SLITS SPACED SIX (6) INCHES VERTICALLY AND HORIZONTALLY AND PLACED IN THE CONCAVE PORTION OF PIPE. NO HOLES WILL BE ALLOWED WITHIN SIX (6) INCHES OF THE HORIZONTAL BARREL.
10. THE RISER SHALL BE WRAPPED WITH 1/4 TO 1/2 INCH HARDWARE CLOTH WIRE THEN WRAPPED WITH FILTER CLOTH (HAVING AN EQUIVALENT SIEVE SIZE OF 40-80). THE FILTER CLOTH SHALL EXTEND SIX (6) INCHES ABOVE THE HIGHEST HOLE AND SIX (6) INCHES BELOW THE LOWEST HOLE. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE OVER-LAPPED, FOLDED AND STAPLED TO PREVENT BYPASS.
11. STRAPS OR CONNECTING BANDS SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. THEY SHALL BE PLACED AT THE TOP AND BOTTOM OF THE CLOTH.
12. THE RISER SHALL BE ANCHORED WITH EITHER A CONCRETE BASE OR STEEL PLATE BASE TO PREVENT FLOTATION. FOR CONCRETE BASE THE DEPTH SHALL BE TWELVE (12) INCHES WITH THE RISER EMBEDDED NINE (9) INCHES. A 1/4 INCH MINIMUM THICKNESS STEEL PLATE SHALL BE ATTACHED TO THE RISER BY A CONTINUOUS WELD AROUND THE BOTTOM TO FORM A WATERTIGHT CONNECTION AND THEN PLACE TWO (2) FEET OF STONE, GRAVEL, OR TAMPED EARTH ON THE PLATE.




BEDDING DETAIL

DRAINAGE AREA NO MORE THAN 1/4 ACRE PER 100 FEET OF STRAW BALE DIKE FOR SLOPES LESS THAN 25%

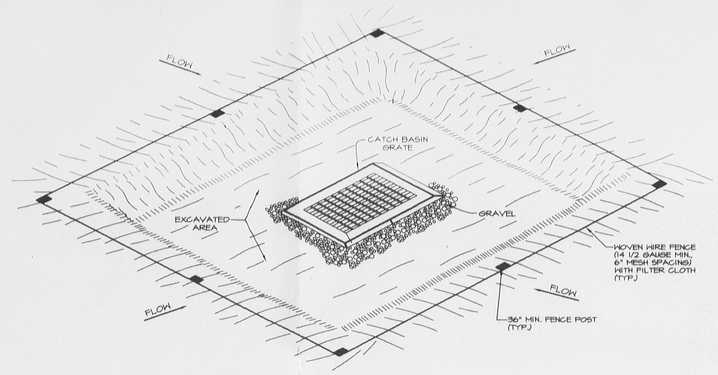



ANCHORING DETAIL

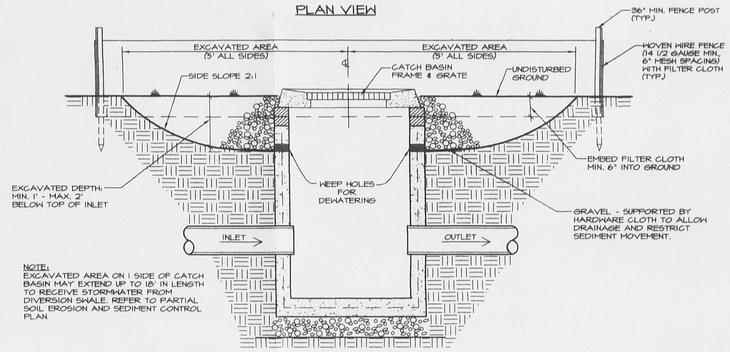
## STRAW BALE DIKE
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.




PLAN VIEW




NOTE:
EXCAVATED AREA ON 1 SIDE OF CATCH BASIN MAY EXTEND UP TO 15' IN LENGTH TO RECEIVE STORMWATER FROM DIVERSION SWALE. REFER TO PARTIAL SOIL EROSION AND SEDIMENT CONTROL PLAN

SECTION

## CATCH BASIN SEDIMENT TRAP
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
2. THE VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
3. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
5. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE CONSTRUCTED DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
6. ALL CUT SLOPES SHALL BE 1:1 OR FLATTER.
MAXIMUM DRAINAGE AREA: 3 ACRES.
7. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
8. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

TOWN OF NEW WINDSOR PLANNING BOARD STAMP OF APPROVAL

APPROVAL GRANTED BY TOWN OF NEW WINDSOR
FOR
JUL 21 2006
By _____ Chairman
By _____ Secretary

DRAWINGS ARE INVALID AND INCOMPLETE UNLESS ACCOMPANIED BY DRAWINGS 1 OF 6 THROUGH 6 OF 6.


**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550




| ISSUE | REVISION | DATE |
|---|---|---|
| 1 | NO REVISION | 8-14-2006 |

Drawn By: J.R.J.
Checked By: G.J.S.
Scale: 1"=30'
Date: 11-9-2005

Drawing: EROSION & SEDIMENT CONTROL DETAILS

Project: NEW STEEL FABRICATING FACILITY FOR PIARIA INC.
SILVER STREAM ROAD TOWN OF NEW WINDSOR, N.Y.

6 OF 6

Project No. 0502